

SEQUENCE LISTING

<110> EXPRESSION DIAGNOSTICS, INC.

Wohlgemuth, Jay
Fry, Kirk
Woodward, Robert
Ly, Ngoc
Prentice, James
Morris, MacDonald
Rosenberg, Steven

<120> METHODS AND COMPOSITIONS FOR DIAGNOSING
AND MONITORING TRANSPLANT REJECTION

<130> 506612000150

<150> US 10/131,827

<151> 2002-04-24

<150> US 10/325,899

<151> 2002-12-20

<160> 3117

<170> PatentIn version 3.2

<210> 1

<211> 50

<212> DNA

<213> Homo sapiens

<400> 1

taaagtcacc gggcgctgga aatagagcct ggcctccttc accaaagatc

50

<210> 2

<211> 50

<212> DNA

<213> Homo sapiens

<400> 2

ggaggcagcc agggccttacc tgtacactga cttgagacca gttgaataaa

50

<210> 3

<211> 50

<212> DNA

<213> Homo sapiens

<400> 3

ctgggttttg tggatcatcta ttctagcagg gaacactaaa ggtggaaata

50

<210> 4

<211> 50

<212> DNA

<213> Homo sapiens

<400> 4

aaagtaaggc atggttgtgg ttaatctggt ttatttttgt tccacaagtt

50

<210> 5
<211> 50
<212> DNA
<213> Homo sapiens

<400> 5
agtttcataa ttgtgtactc ggaaattaaa gtttgcttgt ttcttggctc 50

<210> 6
<211> 50
<212> DNA
<213> Homo sapiens

<400> 6
tcgttaagag agcaacattt tacccacaca cagataaagt tttcccttga 50

<210> 7
<211> 50
<212> DNA
<213> Homo sapiens

<400> 7
tggctctgact gtgctatggc ctcatcatca agactttcaa tcctatccca 50

<210> 8
<211> 50
<212> DNA
<213> Homo sapiens

<400> 8
tgaccagat atggaaacag aagacaaaat tgtaagccag agtcaacaaa 50

<210> 9
<211> 50
<212> DNA
<213> Homo sapiens

<400> 9
gcttcacttg ggtccaggcc tactcctgtc ttctgctttg ttgtgtgcct 50

<210> 10
<211> 50
<212> DNA
<213> Homo sapiens

<400> 10
tattaaggcc ctgttcatta agaaattggt cccttcccct gtgttcaatg 50

<210> 11
<211> 50
<212> DNA
<213> Homo sapiens

<400> 11

cttcttttgc catgtttcca ttctgccatc ttgaattgtc ttgtcagcca 50

<210> 12
<211> 50
<212> DNA
<213> Homo sapiens

<400> 12
ttttgaagag ctttttctat attaggatat cagaattggt caacttttca 50

<210> 13
<211> 50
<212> DNA
<213> Homo sapiens

<400> 13
acgctaatta aattatgcaa aattaaatag ttgtatgtag agaactgata 50

<210> 14
<211> 50
<212> DNA
<213> Homo sapiens

<400> 14
gctcttaagt tgtggagagt gcaacagtag cataggaccc taccctctgg 50

<210> 15
<211> 50
<212> DNA
<213> Homo sapiens

<400> 15
ttcattaatt cctcaacca atactgtctg gcttcacca acaggagcgg 50

<210> 16
<211> 50
<212> DNA
<213> Homo sapiens

<400> 16
ctaataagaa aattctaaat caattattga aacaggatac acacaattac 50

<210> 17
<211> 50
<212> DNA
<213> Homo sapiens

<400> 17
atgggggtaa taagagcagt agcagcagca tctctgaaca tttctctgga 50

<210> 18
<211> 50
<212> DNA
<213> Homo sapiens

<400> 18
atgggagtaa taagagcagt ggcagcagca tctctgaaca tttctctgga 50

<210> 19
<211> 50
<212> DNA
<213> Homo sapiens

<400> 19
gagaagacag tggcgaccaa gacgattttc tgccttagag caagggattc 50

<210> 20
<211> 50
<212> DNA
<213> Homo sapiens

<400> 20
gcaattcctc aggctaagct gccggttcctt aaatccatcc tgctaagtta 50

<210> 21
<211> 50
<212> DNA
<213> Homo sapiens

<400> 21
caagacactg tggacttggt caccagctcc tcccttggtc tctaagttcc 50

<210> 22
<211> 50
<212> DNA
<213> Homo sapiens

<400> 22
ctccccgtga gcactgcgta caaacatcca aaagttcaac aacaccagaa 50

<210> 23
<211> 50
<212> DNA
<213> Homo sapiens

<400> 23
tgaaatatca gactagtgac aagctcctgg tcttgagatg tcttctcggt 50

<210> 24
<211> 50
<212> DNA
<213> Homo sapiens

<400> 24
ctgctgtctt caccggaatc tcccattacc ggccttgat caaccagatc 50

<210> 25
<211> 50

<212> DNA
<213> Homo sapiens

<400> 25
tgtgtaaata cataagcggc gtaagtttaa aggatggttg tgttccacgt 50

<210> 26
<211> 50
<212> DNA
<213> Homo sapiens

<400> 26
ctgatcttac tctactgctg ctgacataaa accaggaccc tttctccaca 50

<210> 27
<211> 50
<212> DNA
<213> Homo sapiens

<400> 27
tgtgagagat gccccacacc aaacccaacc ctcccgatgg ctgcattccc 50

<210> 28
<211> 50
<212> DNA
<213> Homo sapiens

<400> 28
tctctcagga gcagggggcat tgctgatttt gtctgccaa tccatcctgc 50

<210> 29
<211> 50
<212> DNA
<213> Homo sapiens

<400> 29
cgtggatgag ctggagttcc gcaagaaacg gagccagagg cccagcaggt 50

<210> 30
<211> 50
<212> DNA
<213> Homo sapiens

<400> 30
atgagggcac agagcatggc ctccagagga ggggtggtgt ccttctcctc 50

<210> 31
<211> 50
<212> DNA
<213> Homo sapiens

<400> 31
ctttgggttg gagctgttcc attgggtcct cttggtgtcg tttccctccc 50

<210> 32
<211> 50
<212> DNA
<213> Homo sapiens

<400> 32
gatccagaat ccactctcca gtctccctcc cctgactccc tctgctgtcc 50

<210> 33
<211> 50
<212> DNA
<213> Homo sapiens

<400> 33
attatgacta tcaaggagc agtttaaata accgtttcct ttcatttact 50

<210> 34
<211> 50
<212> DNA
<213> Homo sapiens

<400> 34
ctccaaatac cgtaaagctg gagcctcggt ggccatgctt cttgccctt 50

<210> 35
<211> 50
<212> DNA
<213> Homo sapiens

<400> 35
cgtatcctct gtcctgaccg agaagtaccg ctgagcgccg cctccgggac 50

<210> 36
<211> 50
<212> DNA
<213> Homo sapiens

<400> 36
aagtccaact actaaactgg gggatattat gaagggcctt gagcatctgg 50

<210> 37
<211> 50
<212> DNA
<213> Homo sapiens

<400> 37
ttctgaactt gggaacacaa tgcctacttc aagggtatgg cttctgccta 50

<210> 38
<211> 50
<212> DNA
<213> Homo sapiens

<400> 38
atgggggactg ggcttggcct tgagagaaag ccttctgttt aataaagtac 50

<210> 39
<211> 50
<212> DNA
<213> Homo sapiens

<400> 39
cactgcccac gattcagagc tttcaaggat aggctttatt ctgcaagcaa 50

<210> 40
<211> 50
<212> DNA
<213> Homo sapiens

<400> 40
ggatccccag gcgaccttcc ccgtgtttga gtaaagcctc tcccaggagc 50

<210> 41
<211> 50
<212> DNA
<213> Homo sapiens

<400> 41
ccctcactgt caccttcccg agaataccct aagaccaata aatacttcag 50

<210> 42
<211> 50
<212> DNA
<213> Homo sapiens

<400> 42
agccgcccag ctacctaatt cctcagtaac atcgatctaa aatctccatg 50

<210> 43
<211> 50
<212> DNA
<213> Homo sapiens

<400> 43
cagaccctgg tgatgctgga aacagttcct cggagtggag aggtttacac 50

<210> 44
<211> 50
<212> DNA
<213> Homo sapiens

<400> 44
gcctcgacac atcctcatcc ccagcatggg acacctcaag atgaataata 50

<210> 45
<211> 50
<212> DNA
<213> Homo sapiens

<400> 45
tgacatcata ttcttttcaga gaagtgtccc aggacatgat aataagatgc 50

<210> 46
<211> 50
<212> DNA
<213> Homo sapiens

<400> 46
agtgggtgg ggagcatgtt catttgtacc tcgagtttta aactggttcc 50

<210> 47
<211> 50
<212> DNA
<213> Homo sapiens

<400> 47
agctgttccc aaattttcta acgagtggac cattatcact ttaaagcct 50

<210> 48
<211> 50
<212> DNA
<213> Homo sapiens

<400> 48
ctccgggaga ggggacggtc aatcctgtgg gtgaagacag agggaaacac 50

<210> 49
<211> 50
<212> DNA
<213> Homo sapiens

<400> 49
gcaaccttgc atccatctgg gctacccac ccaagtatac aataaagtct 50

<210> 50
<211> 50
<212> DNA
<213> Homo sapiens

<400> 50
gactgacgca acccacgtgt aactgtcagc cgggccctga gtaatcgctt 50

<210> 51
<211> 50
<212> DNA
<213> Homo sapiens

<400> 51
ggtctttagc ctccaccttg tctaagcttt ggtctataaa gtgcgctaca 50

<210> 52
<211> 50
<212> DNA

<213> Homo sapiens

<400> 52

caccagcatc caggcggcca gcaggcacct gagtggctgg gacaagggat 50

<210> 53

<211> 50

<212> DNA

<213> Homo sapiens

<400> 53

caactgatag ccacgctgaa gaatggaagg aaaatttgct tggacctgca 50

<210> 54

<211> 50

<212> DNA

<213> Homo sapiens

<400> 54

cagccctgga taggttttta tgggaattct ttacaataaa catagcttgt 50

<210> 55

<211> 50

<212> DNA

<213> Homo sapiens

<400> 55

ttctacatgt attgttgtgg ttttattcat tgtatgaaaa ttctgtgat 50

<210> 56

<211> 50

<212> DNA

<213> Homo sapiens

<400> 56

accaggatgc aatggattta tttgattcag gggacctgta tttccatgtc 50

<210> 57

<211> 50

<212> DNA

<213> Homo sapiens

<400> 57

cctgtgtggg actgagatgc aggatttctt cacacctctc ctttgtgact 50

<210> 58

<211> 50

<212> DNA

<213> Homo sapiens

<400> 58

cccagataat gtgaaaatgg tccaggagaa ggccaattcc tatacgcagc 50

<210> 59

<211> 50
<212> DNA
<213> Homo sapiens

<400> 59
ctgcaccgtt ctaggtgccg atggctgcct ccggtctctt gcttacgtat 50

<210> 60
<211> 50
<212> DNA
<213> Homo sapiens

<400> 60
ccaatcccga tccaaatcat aatttgttct taagtatact gggcaggtcc 50

<210> 61
<211> 50
<212> DNA
<213> Homo sapiens

<400> 61
gtcactggag gaccaacccc tgctgtccaa aacaccactg cttcctaccc 50

<210> 62
<211> 50
<212> DNA
<213> Homo sapiens

<400> 62
tgggcatggg tgaatctgaa accctccttc tgtggcaact tgtactgaaa 50

<210> 63
<211> 50
<212> DNA
<213> Homo sapiens

<400> 63
tgaatataag caatgaagat gaacatttat tgatcttcta catacaagac 50

<210> 64
<211> 50
<212> DNA
<213> Homo sapiens

<400> 64
cctccaaccc cggaaacttc ctgtgcaacc cagactatca cctttgaaag 50

<210> 65
<211> 50
<212> DNA
<213> Homo sapiens

<400> 65
aggccttggt tttcagcttc atctgcagtt ctatgtgaag attgataaat 50

<210> 66
<211> 50
<212> DNA
<213> Homo sapiens

<400> 66
gtggggctgt gaattctttc ttcattccccg cattcccaat ataccaggc 50

<210> 67
<211> 50
<212> DNA
<213> Homo sapiens

<400> 67
gttttaaaat aatatgtaaa tttttcagct atttagtgat atattttatg 50

<210> 68
<211> 50
<212> DNA
<213> Homo sapiens

<400> 68
tttccttctc tctcaatttt cggttgaata aactagatta cattcagttg 50

<210> 69
<211> 50
<212> DNA
<213> Homo sapiens

<400> 69
ctccctcaca gcacagagaa gacaaaatta gcaaaacccc actacacagt 50

<210> 70
<211> 50
<212> DNA
<213> Homo sapiens

<400> 70
tgctttttcg cgctctgacc acctggcctt gcacatgaag cgccaccttt 50

<210> 71
<211> 50
<212> DNA
<213> Homo sapiens

<400> 71
catttcctga gaccaccaga gagaggggag aagcctggga ttgacagaag 50

<210> 72
<211> 50
<212> DNA
<213> Homo sapiens

<400> 72

agtgggattt tatgccagtt gttaaaatga gcattgatgt acccattttt 50

<210> 73
<211> 50
<212> DNA
<213> Homo sapiens

<400> 73
ctgcccattt cagcctcacc atcaccttgc taatgactgc cagactgtgg 50

<210> 74
<211> 50
<212> DNA
<213> Homo sapiens

<400> 74
gcaataccaa gagaaaatgc acaaatatca ctggatggag atgtcacatt 50

<210> 75
<211> 50
<212> DNA
<213> Homo sapiens

<400> 75
agctgtgttg gtagtgctgt gttgaattac ggaataatga gttagaacta 50

<210> 76
<211> 50
<212> DNA
<213> Homo sapiens

<400> 76
ggagccaagt ccagattttac actgggagag gtgccagcaa ctgaataaat 50

<210> 77
<211> 50
<212> DNA
<213> Homo sapiens

<400> 77
ccatcggtga aactaacaga taagcaagag agatgttttg gggactcatt 50

<210> 78
<211> 50
<212> DNA
<213> Homo sapiens

<400> 78
tgccagacct ccttcctgac ctctgaggca ggagaggaat aaagacggtc 50

<210> 79
<211> 50
<212> DNA
<213> Homo sapiens

<400> 79
cctgtgatca ggctcccaag tctgggtccc atgaggtgag atgcaacctg 50

<210> 80
<211> 50
<212> DNA
<213> Homo sapiens

<400> 80
accagagtac gttggaaaac ttcttggaaa ggctaaagac gatcatgaga 50

<210> 81
<211> 50
<212> DNA
<213> Homo sapiens

<400> 81
ggggaggggga cattgaacaa gttgtttcat tgactatcaa actgaagcca 50

<210> 82
<211> 50
<212> DNA
<213> Homo sapiens

<400> 82
gggtctatgt gaaaatgccc ccaacagagc cagaatgtga aaagcaattt 50

<210> 83
<211> 50
<212> DNA
<213> Homo sapiens

<400> 83
ctgagagccc aaactgctgt cccaaacatg cacttccttg ctttaaggtat 50

<210> 84
<211> 50
<212> DNA
<213> Homo sapiens

<400> 84
cagaccaaga gcaccacaga ctacaactgc ccagcttcat ctaaatactt 50

<210> 85
<211> 50
<212> DNA
<213> Homo sapiens

<400> 85
gcaaaaagcc caagagcctg aatttagacc aatctatcat ctctctctc 50

<210> 86
<211> 50

<212> DNA
<213> Homo sapiens

<400> 86
aagtcctaact actaaactgg gggatattat gaagggcctt gagcatctgg 50

<210> 87
<211> 50
<212> DNA
<213> Homo sapiens

<400> 87
ttcctctttg gccacaagaa taagcagcaa ataaacaact atggctgttg 50

<210> 88
<211> 50
<212> DNA
<213> Homo sapiens

<400> 88
tgggcagctt gggtaagtac gcaacttact tttccaccaa agaactgtca 50

<210> 89
<211> 50
<212> DNA
<213> Homo sapiens

<400> 89
gctggcccat aaacaccctg taggttcttg atatttataa taaaattggt 50

<210> 90
<211> 50
<212> DNA
<213> Homo sapiens

<400> 90
acataggcga agaaaacatg gcattgagtg tgctgagtc agacaaatgt 50

<210> 91
<211> 50
<212> DNA
<213> Homo sapiens

<400> 91
ccggcagctg tgtttagccc ctccagatgg aagtttact tgaatgtaaa 50

<210> 92
<211> 50
<212> DNA
<213> Homo sapiens

<400> 92
gtcaatgtgt ctgttgatcat ggcggaggtg gacggcacct gctactgagc 50

<210> 93
<211> 50
<212> DNA
<213> Homo sapiens

<400> 93
agctcatatg aacactgctc tgaactcctc tgacttagca ttcaacttaa 50

<210> 94
<211> 50
<212> DNA
<213> Homo sapiens

<400> 94
tttgactat tgctagaccc tcttctgtaa tgggtaatgc gtttgattgt 50

<210> 95
<211> 50
<212> DNA
<213> Homo sapiens

<400> 95
aggacttctc tggggacttt cgaatgttgc catgtaaatc ttgagacca 50

<210> 96
<211> 50
<212> DNA
<213> Homo sapiens

<400> 96
tcagttttca ggagtgggtt gatttcagca cctacagtgt acagtcttgt 50

<210> 97
<211> 50
<212> DNA
<213> Homo sapiens

<400> 97
gcaagacata gaatagtgtt ggaaaatgtg caatatgtga tgtggcaa 50

<210> 98
<211> 50
<212> DNA
<213> Homo sapiens

<400> 98
agcttccgcc gtctcaacc ctcacaggag cttactggca aacatgaaaa 50

<210> 99
<211> 50
<212> DNA
<213> Homo sapiens

<400> 99
gcagtttgaa tatcctttgt ttcagagcca gatcatttct tggaaagtgt 50

<210> 100
<211> 50
<212> DNA
<213> Homo sapiens

<400> 100
gttctggaac taaagggatc tgaaacaaca ttcattgtgtg aatatgcaga 50

<210> 101
<211> 50
<212> DNA
<213> Homo sapiens

<400> 101
ttccaggctt ttgctactct tcactcagct acaataaaca tcctgaatgt 50

<210> 102
<211> 50
<212> DNA
<213> Homo sapiens

<400> 102
aaccggatat atacatagca tgacatttct ttgtgctttg gcttacttgt 50

<210> 103
<211> 50
<212> DNA
<213> Homo sapiens

<400> 103
actaatttga tgtttacagg tggacacaca aggtgcaaata caatgcgtac 50

<210> 104
<211> 50
<212> DNA
<213> Homo sapiens

<400> 104
gtccactgtc actgtttctc tgctgttgca aatacatgga taacacattt 50

<210> 105
<211> 50
<212> DNA
<213> Homo sapiens

<400> 105
aaattcaaata cacccttgat acccacttct ttctcccacc caaatctgat 50

<210> 106
<211> 50
<212> DNA
<213> Homo sapiens

<400> 106
agctaattat ctctttgagt ccttgcttct gtttgctcac agtaagctca 50

<210> 107
<211> 50
<212> DNA
<213> Homo sapiens

<400> 107
tgctgctaca gttgcaaaac actggagcta gagaaaataa agtactgatc 50

<210> 108
<211> 50
<212> DNA
<213> Homo sapiens

<400> 108
tgaccactt accttgcac tcacaggtag acagtatata actaacaacc 50

<210> 109
<211> 50
<212> DNA
<213> Homo sapiens

<400> 109
cccaaattct ttcagtggct acctacatac aattccaaac acatacagga 50

<210> 110
<211> 50
<212> DNA
<213> Homo sapiens

<400> 110
atcaacagac caacatTTTT ctcttcctca agcaacactc ctagggcctg 50

<210> 111
<211> 50
<212> DNA
<213> Homo sapiens

<400> 111
atgtgctgtc aaaacaagtt tttctgtcaa gaagatgatc agaccttgga 50

<210> 112
<211> 50
<212> DNA
<213> Homo sapiens

<400> 112
tcaattcctc tgggaatgtt acattgtttg tctgtcttca tagcagattt 50

<210> 113
<211> 50
<212> DNA

<213> Homo sapiens

<400> 113

atgcctggtg cttccaaata ttgttgacaa ctgtgactgt acccaaattg

50

<210> 114

<211> 50

<212> DNA

<213> Homo sapiens

<400> 114

cttgtggctt cctcagctcc tgcccttgge ctgaagtccc agcattgatg

50

<210> 115

<211> 50

<212> DNA

<213> Homo sapiens

<400> 115

aagttttctca gctcccattt ctactctccc atggettcatt gctttctttca

50

<210> 116

<211> 50

<212> DNA

<213> Homo sapiens

<400> 116

tttccttcaa gcctagccct tctctcatta tttctctctg accctctccc

50

<210> 117

<211> 50

<212> DNA

<213> Homo sapiens

<400> 117

aaactaaaac ttcattcttc ccaagtgcgg ggagtacaag gcatggcgta

50

<210> 118

<211> 50

<212> DNA

<213> Homo sapiens

<400> 118

ccccctcgac cccctcacac cctttccaga gaggccttaa gattcccatt

50

<210> 119

<211> 50

<212> DNA

<213> Homo sapiens

<400> 119

gactccctca acaccccaaa actctaaatg ccacggtcatt ctgtttctat

50

<210> 120

<211> 50
<212> DNA
<213> Homo sapiens

<400> 120
tgtttaatgg tagttttaca gtgtttctgg cttagaacaagggggcttaa 50

<210> 121
<211> 50
<212> DNA
<213> Homo sapiens

<400> 121
atcagaaacc gaagattaac tacacagctc cagaagactc agacctcaaa 50

<210> 122
<211> 50
<212> DNA
<213> Homo sapiens

<400> 122
tgttcacgtt gttcacatcc catgtagaaa acaaagatg ccacggagga 50

<210> 123
<211> 50
<212> DNA
<213> Homo sapiens

<400> 123
aaagtaactg gttgtcacct atgagaccct tacgtgattg ttagttaagt 50

<210> 124
<211> 50
<212> DNA
<213> Homo sapiens

<400> 124
ggactgagaa gcaagatatc aatgtagcag aattgcactt gtgcctcacg 50

<210> 125
<211> 50
<212> DNA
<213> Homo sapiens

<400> 125
acagttactt tggagctgct agactgggtt tctgtgttgg taaattgcct 50

<210> 126
<211> 50
<212> DNA
<213> Homo sapiens

<400> 126
tttacacgcc ctgaagcagt cttctttgct agttgaatta tgtgggtgtgt 50

<210> 127
<211> 50
<212> DNA
<213> Homo sapiens

<400> 127
gtccagagct agaagaacca agtcttcctt tcttcattca ttgttcaggt 50

<210> 128
<211> 50
<212> DNA
<213> Homo sapiens

<400> 128
gctgacaaaa cctgggaatt tgggttgtgt atgcgaatgt ttcagtgcct 50

<210> 129
<211> 50
<212> DNA
<213> Homo sapiens

<400> 129
cctgccaggg ttgttcggaa gtcgcaggtc cgaaaatctc ctccgcatac 50

<210> 130
<211> 50
<212> DNA
<213> Homo sapiens

<400> 130
cctcccagca acccactacc tctggtacct gtaaagggtca aacaagaaac 50

<210> 131
<211> 50
<212> DNA
<213> Homo sapiens

<400> 131
cctcaatttt attctaataca ttcccactca gtaccgcgca cccccacccc 50

<210> 132
<211> 50
<212> DNA
<213> Homo sapiens

<400> 132
cgacccttag ccttgctgta gagacttccg tcacccttgg tagagtttat 50

<210> 133
<211> 50
<212> DNA
<213> Homo sapiens

<400> 133

agaggaaaac tgctgctcaa aaagacagtc tcacctttgc acctgtttct 50

<210> 134
<211> 50
<212> DNA
<213> Homo sapiens

<400> 134
gcttcacttg ggtccaggcc tactcctgtc ttctgctttg ttgtgtgcct 50

<210> 135
<211> 50
<212> DNA
<213> Homo sapiens

<400> 135
acctgtcacg cttctagttg cttcaaccat ttataacca tttttgtaca 50

<210> 136
<211> 50
<212> DNA
<213> Homo sapiens

<400> 136
caggaggatg gcaaagagag tcgcatctca gtgcaggaga gacagtgagg 50

<210> 137
<211> 50
<212> DNA
<213> Homo sapiens

<400> 137
gctgcgaaag acccacatgc tacaagacgg gcaaaataaa gtgacagatg 50

<210> 138
<211> 50
<212> DNA
<213> Homo sapiens

<400> 138
ggccaagccc agcttaatgg ctcatgacct ggaaataaaa tttaggacca 50

<210> 139
<211> 50
<212> DNA
<213> Homo sapiens

<400> 139
tgacccagat atggaaacag aagacaaaat tgtaagccag agtcaacaaa 50

<210> 140
<211> 50
<212> DNA
<213> Homo sapiens

<400> 140
ttgggattgg gcataaacag gccactggg aaatagtagc tgtactgcat 50

<210> 141
<211> 50
<212> DNA
<213> Homo sapiens

<400> 141
ttctacggac tcgtctgggt tcttggcccc ctctggtagg actgggacgac 50

<210> 142
<211> 50
<212> DNA
<213> Homo sapiens

<400> 142
ggagggatat caggatcatca ttgtgtatca aaagatgatt tgtacaacag 50

<210> 143
<211> 50
<212> DNA
<213> Homo sapiens

<400> 143
aggaaccagc aagtcaacaa aagactaaca aagaaaaacc atcttggaat 50

<210> 144
<211> 50
<212> DNA
<213> Homo sapiens

<400> 144
cgagttctgc caggacatct ttctcgggggt tctcgttgca atcctcggtc 50

<210> 145
<211> 50
<212> DNA
<213> Homo sapiens

<400> 145
tcacatcatg cagctcctta atacaagcca tccacatctc ccgcttatcc 50

<210> 146
<211> 50
<212> DNA
<213> Homo sapiens

<400> 146
gcctccacac gacatcacac catataccgc aaggaatatc agggatgctg 50

<210> 147
<211> 50

<212> DNA
<213> Homo sapiens

<400> 147
gagaagcacc tcaacctgga gacaattcta ctgttcaaac agcagcagca 50

<210> 148
<211> 50
<212> DNA
<213> Homo sapiens

<400> 148
ttctacggac tcgtctgggt tcttggcccc ctctggtagg actgggcgac 50

<210> 149
<211> 50
<212> DNA
<213> Homo sapiens

<400> 149
gtgaaggccc tggaccaacc cggcccgggc cccccggtat cgggccagag 50

<210> 150
<211> 50
<212> DNA
<213> Homo sapiens

<400> 150
tggcgccctt aatatgatgg gaggatgttt gcagaatgcc ttagatatct 50

<210> 151
<211> 50
<212> DNA
<213> Homo sapiens

<400> 151
cgagttctgc caggacatct ttctcggggt tctcgttgca atcctcggtc 50

<210> 152
<211> 50
<212> DNA
<213> Homo sapiens

<400> 152
ttgaccatag aatcaagcct gaggctgtga agatggtgca agtgtggaga 50

<210> 153
<211> 50
<212> DNA
<213> Homo sapiens

<400> 153
aaaattagtg gattgactcc actttgttgt gttgttttca ttgttgaaaa 50

<210> 154
<211> 50
<212> DNA
<213> Homo sapiens

<400> 154
gaggtgtctc catctctgcc tcaacttcat ggtgcactga gctgtaactt 50

<210> 155
<211> 50
<212> DNA
<213> Homo sapiens

<400> 155
caaccttctt gttgaattga ttactactc atcagggtca tgcacaagca 50

<210> 156
<211> 50
<212> DNA
<213> Homo sapiens

<400> 156
caggtcaacc cccaccggac ctacaaccg cagtcccaca tcatctcagg 50

<210> 157
<211> 50
<212> DNA
<213> Homo sapiens

<400> 157
accggtgtga atgtgaagaa aagcagtatg ttactgggtg ttgttgttgt 50

<210> 158
<211> 50
<212> DNA
<213> Homo sapiens

<400> 158
tttaggggtg tgactggctt tggtgcaa atgtgtgctcaa gctaataagt 50

<210> 159
<211> 50
<212> DNA
<213> Homo sapiens

<400> 159
tgcagtgaga ctacatttct gtctaaagaa gatgtgtgag ttccgtcctt 50

<210> 160
<211> 50
<212> DNA
<213> Homo sapiens

<400> 160
catatgggag aaggccagtg cccaggcata gggtagctc agtttcctc 50

<210> 161
<211> 50
<212> DNA
<213> Homo sapiens

<400> 161
ctgggctgta ggtactgctg ggtcactggt gctataaatg gtcactggag 50

<210> 162
<211> 50
<212> DNA
<213> Homo sapiens

<400> 162
tgggtccaaag gcaaagtctg ggacaagctc aataacttag tcttgtttga 50

<210> 163
<211> 50
<212> DNA
<213> Homo sapiens

<400> 163
ctaggagacc gcaccttatc atgtaccatc aataaagtag cctgtgctca 50

<210> 164
<211> 50
<212> DNA
<213> Homo sapiens

<400> 164
gcaaagaaag aagaatccga ggagtctgat gatgacatgg gctttggctc 50

<210> 165
<211> 50
<212> DNA
<213> Homo sapiens

<400> 165
ttttggaacc cttagccctg tgcaaataca aggatgtgag gggaaaaagg 50

<210> 166
<211> 50
<212> DNA
<213> Homo sapiens

<400> 166
tttaagggag tcaggaatag atgtatgaac agtcgtgtca ctggatgcct 50

<210> 167
<211> 50
<212> DNA
<213> Homo sapiens

<400> 167
tcctaatttc ttctgtgaac cttctcaaat cccccagcat gcgtgtagtg 50

<210> 168
<211> 50
<212> DNA
<213> Homo sapiens

<400> 168
tgacctccac caaagcccat ataaggagcg gagttgttaa ggactgaaga 50

<210> 169
<211> 50
<212> DNA
<213> Homo sapiens

<400> 169
tcaagaattt ggggtgggaga aaagaaagtg gggttatcaag ggtgatttga 50

<210> 170
<211> 51
<212> DNA
<213> Homo sapiens

<400> 170
gcaactgttt tctaggacat gtttactaga actactttaaa gtatgctgtg c 51

<210> 171
<211> 50
<212> DNA
<213> Homo sapiens

<400> 171
ttctctgcat ctaggccatc atactgccag gctgggttatg actcagaaga 50

<210> 172
<211> 50
<212> DNA
<213> Homo sapiens

<400> 172
ctcaacgaaa ggctcacact aacaggggag gattacagca ccacaatact 50

<210> 173
<211> 50
<212> DNA
<213> Homo sapiens

<400> 173
tggggtaagt ggagttggga aatacaagaa gagaaagacc agtggggatt 50

<210> 174
<211> 50
<212> DNA

<213> Homo sapiens

<400> 174
aggaggaact ggggaagggtg gtcattcagg ggaagaacca ggatgcaggg 50

<210> 175
<211> 50
<212> DNA
<213> Homo sapiens

<400> 175
tgaacctcag cccattaggc aggaaaagtt gatattttaat aaacaaggaa 50

<210> 176
<211> 50
<212> DNA
<213> Homo sapiens

<400> 176
gtgatcaaac aaattcacag cacagacacc gcgcaacaac gcaacttctc 50

<210> 177
<211> 50
<212> DNA
<213> Homo sapiens

<400> 177
cccacgggag actatttcac acaatttaac acaggaagtc gataatgagg 50

<210> 178
<211> 50
<212> DNA
<213> Homo sapiens

<400> 178
tgactgaagg caagctcaca gatgaagcag aggactgaag atctcgatct 50

<210> 179
<211> 50
<212> DNA
<213> Homo sapiens

<400> 179
gggaaaaaca agaatttcat gactctacct gtggtctatc ttttaatttca 50

<210> 180
<211> 50
<212> DNA
<213> Homo sapiens

<400> 180
agagaacaac aaaaccacca cgacgatgaa acaaaacgct caaccaaaaca 50

<210> 181

<211> 50
<212> DNA
<213> Homo sapiens

<400> 181
gtggagctgt tggccttgct ggatgcgggc actctctaca ccttcaggta 50

<210> 182
<211> 50
<212> DNA
<213> Homo sapiens

<400> 182
gggttcaatc ccttcagctc aggcggaacca tttagattta aattccactt 50

<210> 183
<211> 50
<212> DNA
<213> Homo sapiens

<400> 183
ttccacagat aggttaagcca ggcgcggcaa gatgagactg tattcagtta 50

<210> 184
<211> 50
<212> DNA
<213> Homo sapiens

<400> 184
cccaccttcc acctcttagc actggtgacc ccaaaaatga aaccatcaat 50

<210> 185
<211> 50
<212> DNA
<213> Homo sapiens

<400> 185
tgcctttaat tgttctcata atgaagaata agtaggtacc ctccatgccc 50

<210> 186
<211> 50
<212> DNA
<213> Homo sapiens

<400> 186
gctagatccc cggtggtttt gtgctcaaaa taaaaagcct cagtgaacca 50

<210> 187
<211> 50
<212> DNA
<213> Homo sapiens

<400> 187
accctaaagga tgggtgtctcc tgtcccagtt gaaaagggtt ctacctagct 50

<210> 188
<211> 50
<212> DNA
<213> Homo sapiens

<400> 188
aataatagat tagcagaagg aataatccgt gcgaccgagc ttgtgcttct 50

<210> 189
<211> 50
<212> DNA
<213> Homo sapiens

<400> 189
gaacatcagg agaggagtcc agagcccacg tctactgcgg aaaagtcagg 50

<210> 190
<211> 50
<212> DNA
<213> Homo sapiens

<400> 190
tcccacttca agttaagcac caaagcaatc actaattctg gagcacagga 50

<210> 191
<211> 50
<212> DNA
<213> Homo sapiens

<400> 191
ttcgtgggca ccaagtttcg caagaactac actgtctgct ggccgagttt 50

<210> 192
<211> 50
<212> DNA
<213> Homo sapiens

<400> 192
agcctggaat tctaagcagc agtttcacaa tctgtaattg cacgtttctg 50

<210> 193
<211> 50
<212> DNA
<213> Homo sapiens

<400> 193
aacagaaaca gctatggcaa cagcatcacc ctcagagcat caccaacttg 50

<210> 194
<211> 50
<212> DNA
<213> Homo sapiens

<400> 194

agcacaagcc acgcttcacc accaagagggc ccaacacctt cttctaggtg 50

<210> 195
<211> 50
<212> DNA
<213> Homo sapiens

<400> 195
ggaccattcc ggagcagccc cacatacctc actgtctcgt ctgtctatgt 50

<210> 196
<211> 50
<212> DNA
<213> Homo sapiens

<400> 196
cagagaacga aagtcaagtg cagcgagttg ggtggaagct gatagagcaa 50

<210> 197
<211> 50
<212> DNA
<213> Homo sapiens

<400> 197
agttggacta aatgctcttc cttcagagga ttatccgggg catctactca 50

<210> 198
<211> 50
<212> DNA
<213> Homo sapiens

<400> 198
ctggcacatc caggttttag agcaggcagc ctgagatttc aaaaatgagg 50

<210> 199
<211> 50
<212> DNA
<213> Homo sapiens

<400> 199
catcttctcc accaaccagg gtgggttcat gctgcctatc tacgagacgg 50

<210> 200
<211> 50
<212> DNA
<213> Homo sapiens

<400> 200
gctgtgccct tgaagagaat agtaatgatg ggaatttaga ggtttatgac 50

<210> 201
<211> 50
<212> DNA
<213> Homo sapiens

<400> 201
actaattccc gtgtctggcc ctgaacatga agatataatg gacgatccct 50

<210> 202
<211> 50
<212> DNA
<213> Homo sapiens

<400> 202
taaaatatgc cctaatttaa agggcgcagg gtcccacaac aagccacaga 50

<210> 203
<211> 50
<212> DNA
<213> Homo sapiens

<400> 203
cagaactcca tagacagcct cactttgtgc tcgggggcct gtcccaaggc 50

<210> 204
<211> 50
<212> DNA
<213> Homo sapiens

<400> 204
acacaagata ctgccacttt ctctacacaa agaccacccc aaacaccagc 50

<210> 205
<211> 50
<212> DNA
<213> Homo sapiens

<400> 205
tgcatcgtaa aaccttcaga aggaaaggag aatgttttgt ggaccacttt 50

<210> 206
<211> 50
<212> DNA
<213> Homo sapiens

<400> 206
ctgaatttgg ttttgggagg tgaggcttcc caaccacgga agactacttt 50

<210> 207
<211> 50
<212> DNA
<213> Homo sapiens

<400> 207
tagggagccg caccttgtca tgtaccatca ataaagtacc ctgtgctcaa 50

<210> 208
<211> 50

<212> DNA
<213> Homo sapiens

<400> 208
ttaataccag gaaccagcg gctctagcca ctgagcggct aaatgaaata 50

<210> 209
<211> 50
<212> DNA
<213> Homo sapiens

<400> 209
gcagagttca ttgttgcccc ttaacagttt ttcctgagtt tactgaagaa 50

<210> 210
<211> 50
<212> DNA
<213> Homo sapiens

<400> 210
actcgctcag aagaggggaac taagcatttt tggcaaccaa tgggcagata 50

<210> 211
<211> 50
<212> DNA
<213> Homo sapiens

<400> 211
aatggaggca cgaacgcagg ggccaaatag caataaatgg gttttgtttt 50

<210> 212
<211> 50
<212> DNA
<213> Homo sapiens

<400> 212
tctcgactga caccactat aaattccctg ggttgaaaaa cttttctttt 50

<210> 213
<211> 50
<212> DNA
<213> Homo sapiens

<400> 213
gaaatgagtt ggtgtcttca cagaatgagg atccccagag ccatcttgcc 50

<210> 214
<211> 50
<212> DNA
<213> Homo sapiens

<400> 214
cctgttgtgg ctggctgcat aataatttcc aggaggcttt cggaaatggt 50

<210> 215
<211> 50
<212> DNA
<213> Homo sapiens

<400> 215
gttaacttcc aggagttcct cattctggtg ataaagatgg gctggcagcc 50

<210> 216
<211> 50
<212> DNA
<213> Homo sapiens

<400> 216
tctggctctg accggttgat ggccttgagc gaatgaaatc atgaaattga 50

<210> 217
<211> 50
<212> DNA
<213> Homo sapiens

<400> 217
tgtaatgaat ttgtcgcaaa gacgtaataa aattaactgg tggcacggtc 50

<210> 218
<211> 50
<212> DNA
<213> Homo sapiens

<400> 218
aaggatgttc cttcaggagg aagcagcact aaaagcactc tgagtcaaga 50

<210> 219
<211> 50
<212> DNA
<213> Homo sapiens

<400> 219
tgccacagta gccctagtgt ttaagtgttg cctctcaaac ttgtcctctt 50

<210> 220
<211> 50
<212> DNA
<213> Homo sapiens

<400> 220
ttctgacacg attacacaac gaggctttaa tgccatttgg gtaggtgagc 50

<210> 221
<211> 50
<212> DNA
<213> Homo sapiens

<400> 221
atgcgtcctg gttttcaatc gctgctgaac aaacctatca aaaatgtagc 50

<210> 222
<211> 50
<212> DNA
<213> Homo sapiens

<400> 222
aacagttggg caccctgaat ggcaaatggc aaatttggag cgctaataat 50

<210> 223
<211> 50
<212> DNA
<213> Homo sapiens

<400> 223
agttttaata ccttaagctt tttcaagacc taactgcagc cgctttggga 50

<210> 224
<211> 50
<212> DNA
<213> Homo sapiens

<400> 224
catctcatgc gtagcactga tcaatgtgcc ccagggtgtg tattcgccac 50

<210> 225
<211> 50
<212> DNA
<213> Homo sapiens

<400> 225
tggatagttg ctcaatgtag cagtgatgtt cttggaattg ccagcagagc 50

<210> 226
<211> 50
<212> DNA
<213> Homo sapiens

<400> 226
tcagggtgaa gtcaagatga cagataaggt gagagtaatg actactccaa 50

<210> 227
<211> 50
<212> DNA
<213> Homo sapiens

<400> 227
cttaactgag ggcttgcct gggtataaat gtctgggtgg gggcgggcac 50

<210> 228
<211> 50
<212> DNA
<213> Homo sapiens

<400> 228
aaaggaagaa gcacgatgca aacagaaaca agacgagaca gagtgagcga 50

<210> 229
<211> 50
<212> DNA
<213> Homo sapiens

<400> 229
cagtcctctt cccaggagga ccctagaggc aattaaatga tgcctgttc 50

<210> 230
<211> 50
<212> DNA
<213> Homo sapiens

<400> 230
cggacggaag gacggaaaaa gctctatttt tatgttaggc ttatttcattg 50

<210> 231
<211> 50
<212> DNA
<213> Homo sapiens

<400> 231
gctttgcctc tcggaggagt caaaggggca gtaactgtat ggggtgagag 50

<210> 232
<211> 50
<212> DNA
<213> Homo sapiens

<400> 232
gctcaagtgc ccagcacctg ggggaattcta agcctgagga agacaagggtg 50

<210> 233
<211> 50
<212> DNA
<213> Homo sapiens

<400> 233
acacggaagt gaagattcct gaggatctaa cttgcagttg gacactatgt 50

<210> 234
<211> 50
<212> DNA
<213> Homo sapiens

<400> 234
accaccacc tcttgactc tcgcttttgg agcaagttgc attactatt 50

<210> 235
<211> 50
<212> DNA

<213> Homo sapiens

<400> 235

ggatcacttg aagccagcag ttgagacca gcctgggcaa taaaatgaga 50

<210> 236

<211> 50

<212> DNA

<213> Homo sapiens

<400> 236

ccactgagaa ctaaagtctg taccacagag ccgggtgtga actatggttt 50

<210> 237

<211> 50

<212> DNA

<213> Homo sapiens

<400> 237

agaaagttag gagtcggcaa ccttaaggag gagtttctta tcatctctcc 50

<210> 238

<211> 50

<212> DNA

<213> Homo sapiens

<400> 238

ctgtagagag tcttcaagat cccggagtgg tagcgctgtc tcctggtgaa 50

<210> 239

<211> 50

<212> DNA

<213> Homo sapiens

<400> 239

cggccaaccc aggagggcag gtgttttggg catctggttt atagtacctc 50

<210> 240

<211> 50

<212> DNA

<213> Homo sapiens

<400> 240

ggggaaggag ggtgattata ttgctttgta atggtttgtg atacttgaaa 50

<210> 241

<211> 50

<212> DNA

<213> Homo sapiens

<400> 241

cgcttaagaa cattgcctct ggggtgtcatg tggaccagac ttctgaatag 50

<210> 242

<211> 50
<212> DNA
<213> Homo sapiens

<400> 242
agtgtgttat tgactttgct cggcagtaga tgaagctatt ctgaacccaa 50

<210> 243
<211> 50
<212> DNA
<213> Homo sapiens

<400> 243
aaagattggt ggtaggcca gattgacacc tatttataaa ccatatgcgt 50

<210> 244
<211> 50
<212> DNA
<213> Homo sapiens

<400> 244
tctctgtca atctctgctt ggctccaagg acctgggac tcctggtag 50

<210> 245
<211> 50
<212> DNA
<213> Homo sapiens

<400> 245
gtacaccct caaccctatg cagcctggag tgggcatcaa taaatgaac 50

<210> 246
<211> 50
<212> DNA
<213> Homo sapiens

<400> 246
tgcgaaattg tggactgttg gactgtgatt ctaagtgggg gaaataggct 50

<210> 247
<211> 50
<212> DNA
<213> Homo sapiens

<400> 247
catatgcggc tgtgccatag ccggatgttc ttcgtgcgtg cctacccccg 50

<210> 248
<211> 50
<212> DNA
<213> Homo sapiens

<400> 248
ctctgccctc ctgtcaccca gtagagtaaa taaacttcct tggctcctaa 50

<210> 249
<211> 50
<212> DNA
<213> Homo sapiens

<400> 249
tgtttttcacg atagaaataa ggaaggtcta gagcttctat tctttggcca 50

<210> 250
<211> 50
<212> DNA
<213> Homo sapiens

<400> 250
tacagaagag cagagaccaa ccttctcaaa gttggtgagt attaaccag 50

<210> 251
<211> 50
<212> DNA
<213> Homo sapiens

<400> 251
tcagtgtaaa cataattagg ccgtgagttt ttgctcttac tcccaggttt 50

<210> 252
<211> 50
<212> DNA
<213> Homo sapiens

<400> 252
aacatatcca gggaggacaa actctgggct ggacaatgta tccacaagg 50

<210> 253
<211> 50
<212> DNA
<213> Homo sapiens

<400> 253
gggggtttgtg ctatactg ggatgtctaa ttgcagcaat aaagcctttc 50

<210> 254
<211> 50
<212> DNA
<213> Homo sapiens

<400> 254
ttgagtaagg ctcagagttg cagatgaggt gcagagaaca tcctgtgact 50

<210> 255
<211> 50
<212> DNA
<213> Homo sapiens

<400> 255

ttcattgctca ttaggacatt gaacaaatgg cagagtaaga aagtttggcc 50

<210> 256
<211> 50
<212> DNA
<213> Homo sapiens

<400> 256
gggggtttcc acaatgtgag ggggaaccaa gaaaatttta aatacagtgt 50

<210> 257
<211> 50
<212> DNA
<213> Homo sapiens

<400> 257
actttaagaa aaaacaaata attgttgcag aggtctctgt attttgcagc 50

<210> 258
<211> 50
<212> DNA
<213> Homo sapiens

<400> 258
gctcgtacc agaaatccta ccgataagcc catcgtgact caaaactcac 50

<210> 259
<211> 50
<212> DNA
<213> Homo sapiens

<400> 259
ctgtaccagt gctggctgca ggtattaagt ccaagtttat taactagata 50

<210> 260
<211> 50
<212> DNA
<213> Homo sapiens

<400> 260
tctgtgaaaa tctttctgca aatgtctttg cttgcttgta ctcacgtttt 50

<210> 261
<211> 50
<212> DNA
<213> Homo sapiens

<400> 261
atttgagtgt tgttggacca tgtgtgatca gactgctatc tgaataaaat 50

<210> 262
<211> 50
<212> DNA
<213> Homo sapiens

<400> 262
tggtttaatg gaaaatgctc tggaaaattc ttttgcaaca gttcatcgct 50

<210> 263
<211> 50
<212> DNA
<213> Homo sapiens

<400> 263
ctatcagccc caagtggagc agaacagagg gatttgggag gaatgtcctc 50

<210> 264
<211> 50
<212> DNA
<213> Homo sapiens

<400> 264
tgagtcagtg tctttactga gctggaagcc tctgaaagtt attaaaggca 50

<210> 265
<211> 50
<212> DNA
<213> Homo sapiens

<400> 265
gtcctttgat agcagaacaa gaggctctgt gatcctctgg acctcagatt 50

<210> 266
<211> 50
<212> DNA
<213> Homo sapiens

<400> 266
ctttagatgt cccacgtccc ttcaagcaca tgaaagagct cacactggag 50

<210> 267
<211> 50
<212> DNA
<213> Homo sapiens

<400> 267
gagatgggga gggctaccac agagttatcc actttacaac ggagacacag 50

<210> 268
<211> 50
<212> DNA
<213> Homo sapiens

<400> 268
aaaaggagac gatgtcaggc aaacactcct taccctgccca tttctagtta 50

<210> 269
<211> 50

<212> DNA
<213> Homo sapiens

<400> 269
cccaaagcct gggggggttg gcccaaacct tccccctggt ttttataaaa 50

<210> 270
<211> 50
<212> DNA
<213> Homo sapiens

<400> 270
gtctgccctg ctggctggaa acctggtagt gaaacaataa tcccagatcc 50

<210> 271
<211> 50
<212> DNA
<213> Homo sapiens

<400> 271
accgaatttg gcaagaatga aatggtgtca taaagatggg aggggagggg 50

<210> 272
<211> 50
<212> DNA
<213> Homo sapiens

<400> 272
cagggtatca gatattgtgc cttttggtgc caggttcaaa gtcaagtgcc 50

<210> 273
<211> 50
<212> DNA
<213> Homo sapiens

<400> 273
tgctggacaa agacaatgag atgattattg gtgggtgggat ggctggtacc 50

<210> 274
<211> 50
<212> DNA
<213> Homo sapiens

<400> 274
gagaagattc aggacctctt ggtggactct ggaaagttca tctacttaga 50

<210> 275
<211> 50
<212> DNA
<213> Homo sapiens

<400> 275
tgaaagagaa agactgatta cctcctgtgt ggaagaagga aacaccgagt 50

<210> 276
<211> 50
<212> DNA
<213> Homo sapiens

<400> 276
ccctctcttc aacatcttgt ccagcttatt caccgtatcc aatcaatat 50

<210> 277
<211> 50
<212> DNA
<213> Homo sapiens

<400> 277
acatcgcta aaaccgtgca tcgtaaacaat ttacctcaaa gtcacacct 50

<210> 278
<211> 50
<212> DNA
<213> Homo sapiens

<400> 278
ataccacac agcaactggt ccactgcttt actgtctgtt ggataatggc 50

<210> 279
<211> 50
<212> DNA
<213> Homo sapiens

<400> 279
ataatcacag ttgtgttcct gacactcaat aaacagtcac tggaaagagt 50

<210> 280
<211> 50
<212> DNA
<213> Homo sapiens

<400> 280
gtgttgagga ggggctgtgt ctgggtgagg gatggcgggg tactgatttt 50

<210> 281
<211> 50
<212> DNA
<213> Homo sapiens

<400> 281
cttcaccgcc ctacttccac ctccgccag cctgtaatgt ttatataagc 50

<210> 282
<211> 50
<212> DNA
<213> Homo sapiens

<400> 282
ctgaatgcca agagcttcaa gagtgtgtgt aaataaagcc acacctttat 50

<210> 283
<211> 50
<212> DNA
<213> Homo sapiens

<400> 283
gacaaccaat tcaaattgatt gtgctaactt atttccccta gttgacctgt 50

<210> 284
<211> 50
<212> DNA
<213> Homo sapiens

<400> 284
gcttataaac acatttgagg aataggaggt ccgggttttc cataatgggt 50

<210> 285
<211> 50
<212> DNA
<213> Homo sapiens

<400> 285
cgatagaatt gaagcagtcc acggggaggg gatgatacaa ggagtaaacc 50

<210> 286
<211> 50
<212> DNA
<213> Homo sapiens

<400> 286
acaagcattt agatcataac atggtaaagc ctattaccag ccaatgttgt 50

<210> 287
<211> 50
<212> DNA
<213> Homo sapiens

<400> 287
ttagggcagt ggagaatcag ggtgtatcta ataaattcct tcatggagct 50

<210> 288
<211> 50
<212> DNA
<213> Homo sapiens

<400> 288
agctgctgac ttgactgtca tcctgttctt gttagccatt gtgaataaga 50

<210> 289
<211> 50
<212> DNA
<213> Homo sapiens

<400> 289
gtcccaaggg tcagtatatt ggaggaaagt aaaggagtga atcagactgc 50

<210> 290
<211> 50
<212> DNA
<213> Homo sapiens

<400> 290
gttcatcgtc tcgcgtcgca agaagtaagg gctaggccat gactcgttcg 50

<210> 291
<211> 50
<212> DNA
<213> Homo sapiens

<400> 291
agcacttact gtcaggcatt cagaatgtga gcaatgacaa taatttacct 50

<210> 292
<211> 50
<212> DNA
<213> Homo sapiens

<400> 292
tgtatctttt cctgttaaac acacagaccc ctccccaatc tggacattga 50

<210> 293
<211> 50
<212> DNA
<213> Homo sapiens

<400> 293
gccaacagaa cagaagaaaa tgtttcagac gggtccccaa atgccggttc 50

<210> 294
<211> 50
<212> DNA
<213> Homo sapiens

<400> 294
tcctggatgc ctctgaagag agggacagac cgtcagaaac tggagagttt 50

<210> 295
<211> 50
<212> DNA
<213> Homo sapiens

<400> 295
gtaaggcaga cgagagaggc ggaggtctca cagtgaacca caggatctgg 50

<210> 296
<211> 51
<212> DNA

<213> Homo sapiens

<400> 296
gtttctaacc cataagtgcc tcatacatatc attgctagtc taaagagctt t 51

<210> 297
<211> 50
<212> DNA
<213> Homo sapiens

<400> 297
acacatgccc tgaatgaatt gctaaatttc aaaggaaatg gaccctgctt 50

<210> 298
<211> 50
<212> DNA
<213> Homo sapiens

<400> 298
atgtgtagga ggaagagttc aggtggaaaa ggagggagct actctcaggc 50

<210> 299
<211> 50
<212> DNA
<213> Homo sapiens

<400> 299
cacccgttgt aggcgacgag cgtgaacgaa aacgtgtcgg acggcttgta 50

<210> 300
<211> 50
<212> DNA
<213> Homo sapiens

<400> 300
gacactttcg agctcccagc tccagcttcg tctcaccttg agttaggctg 50

<210> 301
<211> 50
<212> DNA
<213> Homo sapiens

<400> 301
aaaaggagtg agctatcatc agtgctgtga aataaaagtc tgggtgtgcca 50

<210> 302
<211> 50
<212> DNA
<213> Homo sapiens

<400> 302
ccacaagggt tagtttgggc cttaaaactg ccaaggagtt tccaaggatt 50

<210> 303

<211> 50
<212> DNA
<213> Homo sapiens

<400> 303
gtgacctcgg ggtccccctt ggtgaggggtg ccggtcttgt cgaagacgac 50

<210> 304
<211> 50
<212> DNA
<213> Homo sapiens

<400> 304
tgtgcaaata cggcgagaag aagtgcata gaaagtgtt tataagctgt 50

<210> 305
<211> 50
<212> DNA
<213> Homo sapiens

<400> 305
ccaatctaata ttaaaccctc ataacaggac ataagcttgc gcccgcatct 50

<210> 306
<211> 50
<212> DNA
<213> Homo sapiens

<400> 306
cctgggttaca ataatgaaac tgcgtggag taaagaggga aacatgacca 50

<210> 307
<211> 50
<212> DNA
<213> Homo sapiens

<400> 307
ctatccacag aagctggcct tcgccgagt cctgtgcaga ggctgtatcg 50

<210> 308
<211> 50
<212> DNA
<213> Homo sapiens

<400> 308
gggttacctc actttctagg ttcccaagat tcccaagtta aggaagcttt 50

<210> 309
<211> 50
<212> DNA
<213> Homo sapiens

<400> 309
cctcagcttc caactctgat tccaggacag gatggaaaac ctttggacag 50

<210> 310
<211> 50
<212> DNA
<213> Homo sapiens

<400> 310
tgcctacat agcaattttc tgtggcactg agaaaccatg tatgaccaca 50

<210> 311
<211> 50
<212> DNA
<213> Homo sapiens

<400> 311
agctgtttta ttgaattgga atcgttccac ttggaacca agtttgaaa 50

<210> 312
<211> 50
<212> DNA
<213> Homo sapiens

<400> 312
tgtggtttgc aatggtttac tgatgagaca gcaaaaatga gacaggacca 50

<210> 313
<211> 50
<212> DNA
<213> Homo sapiens

<400> 313
agatgtctgt ataaacaacc tttgggtagc aggtggtcag ttaggcagga 50

<210> 314
<211> 50
<212> DNA
<213> Homo sapiens

<400> 314
ttagaaagaa aagtctttta ttagtactgt gtagggaagg ctaaagaaat 50

<210> 315
<211> 50
<212> DNA
<213> Homo sapiens

<400> 315
tctgtgtcct aaagatgtgt tctctataaa atacaaacca acgtgcctaa 50

<210> 316
<211> 50
<212> DNA
<213> Homo sapiens

<400> 316

atcctggcaa ccttacaatt cctctcggca tttgtcactt ccattctcagc 50

<210> 317
<211> 50
<212> DNA
<213> Homo sapiens

<400> 317
aacttaactc actggcgaga atacagcgtg ggacccttca gccactacaa 50

<210> 318
<211> 50
<212> DNA
<213> Homo sapiens

<400> 318
cagttcccag atgtgcgtgt tgtgggtcccc aagtatcacc ttccaatttc 50

<210> 319
<211> 50
<212> DNA
<213> Homo sapiens

<400> 319
cacaaactag attctggaca ccagtgtgcg gaaatgcttc tgctacattt 50

<210> 320
<211> 50
<212> DNA
<213> Homo sapiens

<400> 320
gttgcagggc gaggtcaaga gagttctgac ctggatggcc catagacctg 50

<210> 321
<211> 50
<212> DNA
<213> Homo sapiens

<400> 321
ccaatgtttc tcttttggcc ctatacaaag gcaagaagga aagaccaaga 50

<210> 322
<211> 50
<212> DNA
<213> Homo sapiens

<400> 322
aatggaagga ttagtatggc ctatttttaa agctgctttg ttaggttctt 50

<210> 323
<211> 50
<212> DNA
<213> Homo sapiens

<400> 323
tcttggcagc catccttttt aagagtaagt tggttacttc aaaaagagca 50

<210> 324
<211> 50
<212> DNA
<213> Homo sapiens /

<400> 324
ctgtgcagaa gagctgccag gcagtgtcctt agatgtgaga cggaggccat 50

<210> 325
<211> 50
<212> DNA
<213> Homo sapiens

<400> 325
tggggcactt tgaaaacttc acaggcccac tgctgcttgc tgaaataaaa 50

<210> 326
<211> 50
<212> DNA
<213> Homo sapiens

<400> 326
gaataggagg gacatggaac catttgcctc tggctgtgtc acaggggtgag 50

<210> 327
<211> 50
<212> DNA
<213> Homo sapiens

<400> 327
gacacagcga gagtccagga acaggcagac aagcgagaaa gaggagaagc 50

<210> 328
<211> 50
<212> DNA
<213> Homo sapiens

<400> 328
aactaacccc ctttccttgc tagaaataac aattagatgc cccaaagcga 50

<210> 329
<211> 50
<212> DNA
<213> Homo sapiens

<400> 329
acgatgatgg ttacccttca tggacgtcctt aatcttccac acacatcccc 50

<210> 330
<211> 50

<212> DNA
 <213> Homo sapiens

<400> 330
 aggctgtaga aggaaatata ccttaacagg ctgatttgga gtgaccaga 50

<210> 331
 <211> 50
 <212> DNA
 <213> Homo sapiens

<400> 331
 tggagataat ctagaacaca ggcaaaatcc ttgcttatga catcacttgt 50

<210> 332
 <211> 50
 <212> DNA
 <213> Homo sapiens

<400> 332
 tcctttctgc ttagtgaatg aatactggaa tccatctgtg ttgatacaat 50

<210> 333
 <211> 1869
 <212> DNA
 <213> Homo sapiens

<400> 333
 tacctgggtg atcctgccag tagcatatgc ttgtctcaaa gattaagcca tgcattgtcta 60
 agtacgcacg gccggtacag tgaaactgcg aatgggtcat taaatcagtt atgggtcctt 120
 tggtcgctcg ctccctctccc acttggataa ctgtggtaat tctagagcta atacatgccg 180
 acgggcgctg acccccttcg cgggggggat gcgtgcattt atcagatcaa aaccaaccg 240
 gtcagccctt ctccggcccc ggccgggggg cgggcgcccg cggcttttgt gactctagat 300
 aacctcgggc cgatcgacg cccccgtgg cggcgacgac ccattcgaac gtctgcctta 360
 tcaactttcg atggtagtcg ccgtgcctac catgggtgacc acgggtgacg gggaatcagg 420
 gttcgattcc ggagagggag cctgagaaac ggctaccaca tccaaggaag gcagcaggcg 480
 cgcaaattac ccactcccga cccggggagg tagtgacgaa aaataacaat acaggactct 540
 ttcgaggccc tgtaattgga atgagtcac tttaaatcct ttaacgagga tccattggag 600
 ggcaagtctg gtgccagcag ccgcggtaat tccagctcca atagcgtata ttaaagttgc 660
 tgcagttaaa aagctcgtag ttggatcttg ggagcgggcg ggcggtccgc cgcgaggcga 720
 gccaccgccc gtccccgccc cttgcctctc ggcgccccct cgatgctctt agctgagtgt 780
 cccgcggggc ccgaagcgtt tactttgaaa aaattagagt gttcaaagca ggcccagacc 840
 gcctggatac cgcagctagg aataatggaa taggaccgcg gttctatctt gttggttttc 900

ggaactgagg ccatgattaa gagggacggc cgggggcatt cgtattgcgc cgctagaggt 960
 gaaattcttg gaccggcgca agacggacca gagcgaaagc atttgccaag aatgttttca 1020
 ttaatcaaga acgaaagtcg gaggttcgaa gacgatcaga taccgtcgta gttccgacca 1080
 taaacgatgc cgaccggcga tgcggcgggc ttattcccat gaccgcccgg gcagcttcgg 1140
 ggaaacaaaa gtctttgggt tccgggggga gtatggttgc aaagctgaaa cttaaaggaa 1200
 ttgacggaag ggcaccacca ggagtggagc ctgcggtta atttgactca acacgggaaa 1260
 cctcaccggg cccggacacg gacaggattg acagattgat agctctttct cgattccgtg 1320
 ggtggtggtg catggccgtt cttagtgtgt ggagcgattt gtctggttaa ttccgataac 1380
 gaacgagact ctggcatgct aactagttac gcgacccccg agcggtcggc gtcccccaac 1440
 ttcttagagg gacaagtggc gttcagccac ccgagattga gcaataacag gtctgtgatg 1500
 cccttagatg tccggggctg cacgcgcgct aactgactg gctcagcgtg tgcctaccct 1560
 acgccggcag gcgcgggtaa cccgttgaac cccattcgtg atggggatcg gggattgcaa 1620
 ttattcccca tgaacgagga attcccagta agtgcgggtc ataagcttgc gttgattaag 1680
 tccctgcct ttgtacacac cgcccgtcgc tactaccgat tggatggttt agtgaggccc 1740
 tcggatcggc cccgccgggg tcggcccacg gccctggcgg agcgtgaga agacggtcga 1800
 acttgactat ctagaggaag taaaagtcgt aacaaggttt ccgtaggtga acctgcggaa 1860
 ggatcatta 1869

<210> 334
 <211> 1793
 <212> DNA
 <213> Homo sapiens

<400> 334
 cgcgtccgcc ccgcgagcac agagcctcgc ctttgccgat ccgccgcccg tccacaccgg 60
 ccgccagctc accatggatg atgatatcgc cgcgctcgtc gtcgacaacg gctccggcat 120
 gtgcaaggcc ggcttcgcgg gcgacgatgc cccccgggccc gtcttccct ccatcgtggg 180
 gcgccccagg caccagggcg tgatgggtgg catgggtcag aaggattcct atgtgggcga 240
 cgaggccccag agcaagagag gcacccctcac cctgaagtac cccatcgagc acggcatcgt 300
 caccaactgg gacgacatgg agaaaatctg gcaccacacc ttctacaatg agctgcgtgt 360
 ggctcccag gagcaccg tgctgctgac cgaggcccc ctgaaccca aggccaaccg 420
 cgagaagatg acccagatca tgtttgagac cttcaacacc ccagccatgt acgttgctat 480
 ccaggctgtg ctatccctgt acgcctctgg ccgtaccact ggcacgtga tggactccgg 540
 tgacggggtc acccacactg tgcccatcta cgaggggtat gccctcccc atgccatcct 600

gcgtctggac ctggctggcc gggacctgac tgactacctc atgaagatcc tcaccgagcg 660
 cggctacagc ttcaccacca cggccgagcg ggaaatcgtg cgtgacatta aggagaagct 720
 gtgctacgtc gccctggact tcgagcaaga gatggccacg gctgcttcca gctcctccct 780
 ggagaagagc tacgagctgc ctgacggcca ggtcatcacc attggcaatg agcggttccg 840
 ctgccctgag gcactcttcc agccttcctt cctgggcatg gagtccctgtg gcatccacga 900
 aactaccttc aactccatca tgaagtgtga cgtggacatc cgcaaagacc tgtacgccaa 960
 cacagtgtg tctggcgga ccaccatgta ccctggcatt gccgacagga tgcagaagga 1020
 gatcactgcc ctggcaccca gcacaatgaa gatcaagatc attgctcctc ctgagcgcaa 1080
 gtactccgtg tggatcggcg gctccatcct ggctcgtg tccaccttcc agcagatgtg 1140
 gatcagcaag caggagtatg acgagtcggg cccctccatc gtccaccgca aatgcttcta 1200
 ggcggactat gacttagttg cgttacaccc tttcttgaca aaacctaact tgcgcagaaa 1260
 acaagatgag attggcatgg ctttatttgt tttttttgtt ttgttttggg tttttttttt 1320
 ttttttggctt gactcaggat ttaaaaactg gaacggtgaa ggtgacagca gtcggttgga 1380
 gcgagcatcc cccaaagttc acaatgtggc cgaggacttt gattgcacat tgttgttttt 1440
 ttaatagtca ttccaaatat gagatgcatt gttacaggaa gtcccttgcc atcctaaaag 1500
 ccacccccact tctctctaag gagaatggcc cagtcctctc ccaagtccac acaggggagg 1560
 tgatagcatt gctttcgtgt aaattatgta atgcaaaatt tttttaatct tcgccttaat 1620
 acttttttat tttgttttat tttgaatgat gagccttcgt gccccccctt cccctttttt 1680
 gtcccccaac ttgagatgta tgaaggcttt tggctcctcct gggagtgggt ggaggcagcc 1740
 agggcttacc tgtacactga cttgagacca gttgaataaa agtgcacacc tta 1793

<210> 335
 <211> 2191
 <212> DNA
 <213> Homo sapiens

<400> 335
 ggtggccgag cgggggaccg ggaagcatgg cccgggggtc ggcggttgcc tgggcggcgc 60
 tcgggcccgtt gttgtggggc tgcgcgctgg ggctgcaggg cgggatgctg tacccccagg 120
 agagcccgtc gcgggagtg aaggagctgg acggcctctg gagcttccgc gccgacttct 180
 ctgacaaccg acgcgggggc ttcgaggagc agtgggtaccg gcggccgctg tgggagtcag 240
 gccccaccgt ggacatgcca gttccctcca gttcaatga catcagccag gactggcgtc 300
 tgcggcattt tgtcggctgg gtgtggtacg aacgggaggt gatcctgccg gagcgatgga 360
 cccaggacct gcgcacaaga gtggtgctga ggattggcag tgccatttc tatgccatcg 420

tgtgggtgaa	tgggggtcgac	acgctagagc	atgagggggg	ctacctcccc	ttcgaggccg	480
acatcagcaa	cctggtccag	gtggggcccc	tgccctcccc	gtcccgaaac	actatcgcca	540
tcaacaacac	actcaccccc	accaccctgc	caccagggac	catccaatac	ctgactgaca	600
cctccaagta	tcccaagggg	tactttgtcc	agaacacata	ttttgacttt	ttcaactacg	660
ctggactgca	gcggtctgta	cttctgtaca	cgacaccac	cacctacac	gatgacatca	720
ccgtcaccac	cagcgtggag	caagacagt	ggctgggtgaa	ttaccagatc	tctgtcaagg	780
gcagtaacct	gttcaagttg	gaagtgcgtc	ttttggatgc	agaaaacaaa	gtcgtggcga	840
atgggactgg	gaccagggc	caacttaagg	tgccaggtgt	cagcctctgg	tggccgtacc	900
tgatgcacga	acgccctgcc	tatctgtatt	cattggaggt	gcagctgact	gcacagacgt	960
cactggggcc	tgtgtctgac	ttctacacac	tccctgtggg	gatccgcact	gtggctgtca	1020
ccaagagcca	gttctcatc	aatgggaaac	ctttctatct	ccacggtgtc	aacaagcatg	1080
aggatgcgga	catccgaggg	aagggtctcg	actggccgct	gctgggtgaag	gacttcaacc	1140
tgcttcgctg	gcttggtgcc	aacgctttcc	gtaccagcca	ctaccctat	gcagaggaag	1200
tgatgcagat	gtgtgaccgc	tatgggattg	tggatcatga	tgagtgtccc	ggcgtggggc	1260
tggcgtgcc	gcagttcttc	aacaacgttt	ctctgcatca	ccacatgcag	gtgatggaag	1320
aagtgggtcg	tagggacaag	aaccaccccc	cggctcgtgat	gtgggtctgtg	gccaacgagc	1380
ctgcgtccca	cctagaatct	gctggctact	acttgaagat	ggtgatcgct	cacaccaa	1440
ccttggaacc	ctcccgccct	gtgacctttg	tgagcaactc	taactatgca	gcagacaagg	1500
gggctccgta	tgtggatgtg	atctgtttga	acagctacta	ctcttggtat	cacgactacg	1560
ggcacctgga	gttgattcag	ctgcagctgg	ccaccagtt	tgagaactgg	tataagaagt	1620
atcagaagcc	cattattcag	agcgagtatg	gagcagaaac	gattgcaggg	tttcaccagg	1680
atccacctct	gatgttcact	gaagagtacc	agaaaagtct	gctagagcag	taccatctgg	1740
gtctggatca	aaaacgcaga	aaatatgtgg	ttggagagct	catttggaat	tttgccgatt	1800
tcatgactga	acagtcaccg	acgagagtgc	tggggaataa	aaaggggatc	ttcactcggc	1860
agagacaacc	aaaaagtgca	gcgttccttt	tgcgagagag	atactggaag	attgccaatg	1920
aaaccaggta	tccccactca	gtagccaagt	cacaatgttt	ggaaaacagc	ccgtttactt	1980
gagcaagact	gataccacct	gcgtgtccct	tcctccccga	gtcagggcga	cttcacagc	2040
agcagaacaa	gtgcctcctg	gactgttcac	ggcagaccag	aacgtttctg	gcctgggttt	2100
tgtggtcatc	tattctagca	gggaacacta	aaggtggaaa	taaaagattt	tctattatgg	2160
aaataaagag	ttggcatgaa	agtcgctact	g			2191

<210> 336
 <211> 925
 <212> DNA
 <213> Homo sapiens

<400> 336
 ggcacgagcc gagatgtctc gctccgtggc cttagctgtg ctgcgcgtac tctctctttc 60
 tggcctggag gctatccagc gtactccaaa gattcaggtt tactcacgtc atccagcaga 120
 gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg tttcatccat ccgacattga 180
 agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag acttgtcttt 240
 cagcaaggac tggctcttct atctcttgta ctacactgaa ttcaccccca ctgaaaaaga 300
 tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatag ttaagtggga 360
 tcgagacatg taagcagcat catggaggtt tgaagatgcc gcatttggat tggatgaatt 420
 ccaaattctg cttgcttgct ttttaatat gatatgctta tacacttaca ctttatgcac 480
 aaaatgtagg gttataataa tgtaacatg gacatgatct tctttataat tctactttga 540
 gtgctgtctc catgtttgat gtatctgagc aggttgctcc acaggtagct ctaggagggc 600
 tggcaactta gaggtgggga gcagagaatt ctcttatcca acatcaacat cttggtcaga 660
 tttgaactct tcaatctctt gcactcaaag cttgttaaga tagttaagcg tgcataagtt 720
 aacttccaat ttacatactc tgcttagaat ttgggggaaa atttagaaat ataattgaca 780
 ggattatttg aaatttgtaa taatgaatga aacattttgt catataagat tcatatttac 840
 ttcttataca tttgataaag taaggcatgg ttgtgggttaa tctgggttat ttttgttcca 900
 caagttaa ataatcataaa acttg 925

<210> 337
 <211> 3408
 <212> DNA
 <213> Homo sapiens

<400> 337
 cctttggacg cgcgcctcgg ttccgaacgc agcggacggc gcctcaggca gcgcggcgga 60
 cagcccgtcc tccggcgcgc cgcgagcctc ggaggaccct agcgacggtc gtggcgtaag 120
 accgggggga cgcggcggtg gcggcgggcg ttgcgattga ttgcgctggt tgcctgcggc 180
 gtccacttcc ttggccgccc ttgctacact ggctgattgt tgtgcagccg gcgccatgtc 240
 tgtgagcgag atcttcgtgg agctgcaggg ctttttggct gccgagcagg acatccgaga 300
 ggaaatcaga aaagttgtac agagtttaga acaaacagct cgagagattt taactctact 360
 gcaagggggtc catcaggggtg ctgggtttca ggacattcca aagaggtgtt tgaaagctcg 420
 agaacatttt ggtacagtaa aaacacatct aacatctttg aagaccaa at ttcctgctga 480

acagtattac agatttcatg agcactggag gtttgtgttg cagcgcttgg tcttcttggc	540
agcatttggt gtgtatttgg aaacagaaac actagtgact cgagaagcag ttacagaaat	600
tcttggcatt gagccagatc gggagaaagg atttcatctg gatgtagaag attatctctc	660
aggagtctta attcttgcca gtgaactgtc gaggctgtct gtcaacagcg tgactgctgg	720
agactactcc cgacccctcc acatctccac cttcatcaat gagctggatt cgggttttgc	780
ccttctcaac ctgaaaaatg actccctgag gaagcgctac gacggattga aatatgacgt	840
gaagaaagta gaggaagtgg tctatgatct ctccatccgg ggctttaata aggagacggc	900
agcagcttgt gttgaaaaat aggaggctct ccttgctcct ggccttgctg acctcagcgg	960
ttgccaggaa ggggtgagca cagagtgcct cttacggtag ttaggatgct cagttgctaa	1020
acactgcgct ttattttctt aaccagttgt ggtgtgagta tcagaattga aacacttttt	1080
tgggggtaaa aaatatagcc ttacatgga cagaattttt tttgttgttt cagtgaatat	1140
gcctgtaatt cagtgtattt cagttccgtc agaaagtgt aatgttagtt tcttggtaaa	1200
gtccttttct tgcttacctt gactgttgat gtactgattg agaagttcat tgtctcgttt	1260
gtgattcttc cagatgtgat gcttgatatt ttctatatgc gagttagcca tccacacca	1320
ggcatagcct ggatacagta taaaaataga taattaaaaa gatggttgcc aagcaaggaa	1380
aacttatttt atattttccc ttccttattt taagcattgt gagtaaatca gatgttgaat	1440
tcttttgcca agggaattat agctgcaggt tctctctcac tgccatcaaa ctgtaaaaga	1500
ttaaactgcg aagtcaagct caacagatta ttttggaag tttttgtatt aagggattta	1560
gtaacatcat tttgttttcc accaggcagg gagtagggct tagtgtttta aaacacctct	1620
gctttctgat gttgccttaa tattctgcta ttgcagcaat taaaaattgt cttcatgtac	1680
atttggaact aacacgtgat gtgatatatt cctaaactat gaaacctttt tcctagtagt	1740
cagctagatc atttgttctg ggagtataaa gccaccacg taagttaata agcaaatcc	1800
tgactattat gttgttagag aaaaatgctt tgctttgtct ggaagaaaga taaaatagt	1860
aattataaat aagtcaggcc gggcgtggtg gctcacacct gtaatccag cacactggga	1920
ggccgaggca gggggactgc ttgagctcag gagttcgaga ccagcctggg caacaaagt	1980
agactccatc tctatataaa aacaaaaacc acgaaagcac acacaaaata aatcagtggg	2040
atttggtaat gtgttttaga gtaagaaatt tcaggttggt ggtgactatc ccaacagtca	2100
tgttttaaat gtacagtttg gggcaagtca tgtaaatact gttggtggtc ttccccacac	2160
gccccattt tcaggtagta ctaagagtat gtgccaggaa actcttgcta ttgaattgag	2220
atgattaaaa tgggtgactta atccgtagtt attttgcacc cactgaaagg aaagtgcttt	2280
ccagaataat atgaagtatc taaaagtgtc accttttctt gcctgatcaa caatttgggc	2340

```

ttcctgtttg tacaaggggc catttgccat acctttcaca gcttttatca ggccaagtta 2400
aaggctgact acattttttc atcatgagga aagcagttga aatgaggcat gagttactgt 2460
gcattgggat tttagaacaa ttttcttggtg acagctcttt ttgtgaagtt aggttcttaa 2520
aagtgcccat gatggtcact taaaatgtgc agtaatagca ctgccaggat caagcatgaa 2580
aggcttttaa attagatcat cccacagaca atacgtttga taatagtttt ttcttttaac 2640
ctctttaagt attgattctg cttgagaata ttgaagtact tgccagaagt tgtggatttc 2700
agttttaaca aatgctatta aagtggagaa gcacactctg gtcttggaat tccatttgag 2760
gatttagaag tgtcatgttt ataactattc agttgtgttt gttgctggct tgttgtaaag 2820
caataaaatt tttttggtct ttttgtaagt gagtgtgctg ctgtaagaaa tctcccatgt 2880
gcataacaaa ttctgaatat tttttgaggc taaagaagac cggggtgaca agcagatact 2940
gctgtgtaat ggttacacta accaaaagac accagccact cagagttcta tactgtaaag 3000
cgcagataac atttgtgtgt tataccttga ttggggaatt aaaagtcatt taactgaaga 3060
tgttgagaaa cctgggctct ggtttttagta taccggaatt acttttttcc aattttagaa 3120
aatcaagcag gttagagaaa atagagatga attaggggac actgtcttat ggattcattt 3180
ataagaagag aaccagccat atacacttgg ggagatttgc cacatcttaa acttgaataa 3240
tagtatgagt aatgcttaag ggagtttaat agagaaggaa agctttggca gtgttttgag 3300
aacttaagtg gctaaagaga tgagacaaac atgcaggctg ctactggcat agtttcataa 3360
ttgtgtactc ggaaattaaa gtttgcttgt ttcttggctc ggattaaa 3408

```

```

<210> 338
<211> 2139
<212> DNA
<213> Homo sapiens

```

```

<400> 338
gtgagacagg ggtagtgca ggccggggcac agccttcctg tgtggtttta ccgcccagag 60
agcgtcatgg acctggggaa accaatgaaa agcgtgctgg tgggtggctct ccttgtcatt 120
ttccaggtat gcctgtgtca agatgaggtc acggacgatt acatcggaga caacaccaca 180
gtggactaca ctttgttcga gtctttgtgc tccaagaagg acgtgcggaa ctttaaagcc 240
tgggttcctcc ctatcatgta ctccatcatt tgtttcgtgg gcctactggg caatgggctg 300
gtcgtgttga cctatatcta tttcaagagg ctcaagacca tgaccgatac ctacctgtc 360
aacctggcgg tggcagacat cctcttcctc ctgacccttc ccttctgggc ctacagcgcg 420
gccaagtcct ggggtcttcgg tgtccacttt tgcaagctca tctttgccat ctacaagatg 480
agcttcttca gtggcatgct cctacttctt tgcatcagca ttgaccgcta cgtggccatc 540

```

gtccaggctg tctcagctca ccgccaccgt gcccgcgctcc ttctcatcag caagctgtcc	600
tgtgtgggca tctggatact agccacagtg ctctccatcc cagagctcct gtacagtgac	660
ctccagagga gcagcagtga gcaagcgatg cgatgctctc tcatcacaga gcatgtggag	720
gcctttatca ccatccaggt ggcccagatg gtgatcggct ttctgggtccc cctgctggcc	780
atgagcttct gttaccttgt catcatccgc accctgctcc aggcacgcaa ctttgagcgc	840
aacaaggcca tcaaggatgat catcgctgtg gtcgtggtct tcatagtctt ccagctgccc	900
tacaatgggg tggctctggc ccagacgggtg gccaaacttca acatcaccag tagcacctgt	960
gagctcagta agcaactcaa catcgccctac gacgtcacct acagcctggc ctgctgcccgc	1020
tgctgctca accctttctt gtacgccttc atcggcgtca agttccgcaa cgatctcttc	1080
aagctcttca aggacctggg ctgcctcagc caggagcagc tccggcagtg gtcttctctgt	1140
cggcacatcc ggcgctctc catgagtgtg gaggccgaga ccaccaccac cttctcccca	1200
taggcgactc ttctgcctgg actagagggga cctctcccag ggtccctggg gtggggatag	1260
ggagcagatg caatgactca ggacatcccc ccgccaaaag ctgctcaggg aaaagcagct	1320
ctcccctcag agtgcaagcc ctgctccaga agttagcttc accccaatcc cagctacctc	1380
aaccaatgcc gaaaaagaca gggctgataa gctaacacca gacagacaac actgggaaac	1440
agaggctatt gtcccctaaa ccaaaaactg aaagtgaag tccagaaact gttcccacct	1500
gctggagtga aggggccaag gaggggtgagt gcaaggggcg tgggagtggc ctgaagagtc	1560
ctctgaatga accttctggc ctcccacaga ctcaaatgct cagaccagct cttccgaaaa	1620
ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaggaaaag	1680
cggacatcag ctggtcaaac aaactctctg aaccctccc tccatcgttt tcttactgt	1740
cctccaagcc agcgggaatg gcagctgcca cgccgcccta aaagcacact catcccctca	1800
cttgccgctg cgccctcca ggctctcaac aggggagagt gtggtgtttc ctgcaggcca	1860
ggccagctgc ctccgctga tcaaagccac actctgggct ccagagtggg gatgacatgc	1920
actcagctct tggctccact gggatgggag gagaggacaa gggaaatgtc aggggcgggg	1980
agggtgacag tggccgcca aggccacgag cttgttcttt gttctttgtc acagggactg	2040
aaaacctctc ctcatgttct gctttcgatt cgtaagaga gcaacatttt acccacacac	2100
agataaagtt ttcccttgag gaaacaacag ctttaaaag	2139

<210> 339
 <211> 1484
 <212> DNA
 <213> Homo sapiens

<400> 339
cccgtgagga ggaaaaggtg tgtccgctgc caccagtggt gagcgggtga caccacccgg 60
ttaggaaatc ccagctccca agaggggtata aatccctgct ttactgctga gctcctgctg 120
gaggtgaaag tctggcctgg cagccttccc caggtgagca gcaacaaggc cacgtgctgc 180
tgggtctcag tctctcactt cccgtgtcct ctggaagttg tcaggagcaa tgttgcgctt 240
gtacgtggtg gtaatgggag tttctgcctt cacccttcag cctgcggcac acacaggggc 300
tgccagaagc tgccgggttc gtgggaggca ttacaagcgg gagttcaggc tggaagggga 360
gcctgtagcc ctgaggtgcc cccaggtgcc ctactgggtg tgggcctctg tcagcccccg 420
catcaacctg acatggcata aaaatgactc tgctaggacg gtcccaggag aagaagagac 480
acggatgtgg gcccaggacg gtgctctgtg gcttctgcca gccttgccagg aggactctgg 540
cacctacgtc tgcactacta gaaatgcttc ttactgtgac aaaatgtcca ttgagctcag 600
agtttttgag aatacagatg ctttcctgcc gttcatctca taccgcgaaa ttttaacctt 660
gtcaacctct ggggtattag tatgccctga cctgagtga ttcacccgtg acaaaactga 720
cgtgaagatt caatggtaca aggattctct tcttttggtt aaagacaatg agaaatttct 780
aagtgtgagg gggaccactc acttactcgt acacgatgtg gccctggaag atgctggcta 840
ttaccgctgt gtcctgacat ttgcccata aggccagcaa tacaacatca ctaggagtat 900
tgagctacgc atcaagaaaa aaaaagaaga gaccattcct gtgatcattt cccccctcaa 960
gaccatatca gcttctctgg ggtcaagact gacaatcccg tgtaagggtg ttctgggaac 1020
cggcacaccc ttaaccacca tgctgtggtg gacggccaat gacaccaca tagagagcgc 1080
ctacccggga ggccgctga ccgaggggccc acgccaggaa tattcagaaa ataatgagaa 1140
ctacattgaa gtgccattga tttttgatcc tgtcacaaga gaggatttgc acatggattt 1200
taaagtgtgt gtccataata ccctgagttt tcagacacta cgcaccacag tcaaggaagc 1260
ctcctccacg ttctcctggg gcattgtgct ggccccactt tcaactggcct tcttggtttt 1320
ggggggaata tggatgcaca gacggtgcaa acacagaact ggaaaagcag atggtctgac 1380
tgtgctatgg cctcatcatc aagactttca atcctatccc aagtgaata aatggaatga 1440
aataattcaa acacaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1484

<210> 340
<211> 1363
<212> DNA
<213> Homo sapiens

<400> 340
gaggaaaagc tttcggactg ctgaaggccc agcaggaaga gaggctggat gagatcaaca 60
agcaattcct agacgatccc aaatatagca gtgatgagga tctgccctcc aaactggaag 120

gcttcaaagg tgagggggaa actgtaggcg gtggagacag ggctgggggt aggagggtta 180
 ggatttccac aagaacaagg caggaacagc agagataaaa agtttacttt tgtggtagca 240
 aaaggggaac ctgcctttat tgccctcctg ccacactgcg gtccctttcc cgggcctgcc 300
 tctctcagca tccctctag ctccctacac cctagcgggg cccctcaact ccccaacccc 360
 acttctctg cctgcccctc ctccctcttc cacgttgtct cctccaccta gcagttgggt 420
 ggcaaccctt tctcactca cccagagaaa tacatggagt ttgacctaa tggaaatggc 480
 gatattggtg agaaacgggt gatttgccgg ggccagggtg tgtgcaggcc taagaagaca 540
 gaggtctctc ctacatgctc cattcctcat gatttgggag ggggccacc taccacagtg 600
 ggaggaagga gaatggggat gcggaagtgg gagaggagag agagggtctc cccaccttct 660
 ccccatcccc atcctctgcc cccagatata atgtccctga aacgaatgct ggagaaactt 720
 ggagtcccca agactcacct agagctaaag aaattaattg gagagggtgc cagtggctcc 780
 ggggagacgt tcagctaccc tgactttctc aggatgatgc tgggcaagag atctgccatc 840
 ctaaaaatgt gagtgtcaat ttccaacctc ccctgtactt acctgttttc tctccccca 900
 tccctacctt tgtccacagg ctcaacattt ctacacgttg cccatcatcc cttcttccat 960
 ccttagaggg acccttccaa ggtcccgacc ccatccctat ccatagtcct ggtccccaga 1020
 aactccaacc cctgcccttc ctcttcccc ttccaccctc acatcccat ccccttctag 1080
 cctttcctag caccctatga tttattccct tgagaggagt gttccctgat ccctgtgcct 1140
 cttcccatct caaccaggat cctgatgtat gaggaaaaag cgagagaaaa ggaaaagcca 1200
 acaggccccc cagccaagaa agctatctct gagttgccct gatttgaagg gaaaagggat 1260
 gatgggattg aaggggcttc taatgacca gatatggaaa cagaagacaa aattgtaagc 1320
 cagagtcaac aaattaaata aattaccccc tctccagat caa 1363

<210> 341
 <211> 1937
 <212> DNA
 <213> Homo sapiens

<400> 341
 cacctgtcat tcgttcgtcc tcagtgcagg gcaacaggac tttaggttca agatgggtgac 60
 tgcagccatg ctgctacagt gctgcccagt gcttgcccgg ggccccacaa gcctcctagg 120
 caagggtggt aagactcacc agttcctggt tgggtattgga cgctgtccca tcttggctac 180
 ccaaggacca aactgttctc aaatccacct taaggcaaca aaggctggag gagattctcc 240
 atcttgggag aagggccact gtcccttcat gctgtcggaa ctccaggatg ggaagagcaa 300
 gattgtgcag aaggcagccc cagaagtcca ggaagatgtg aaggctttca agacagatct 360

```

gcctagctcc ctggtctcag tcagcctaag gaagccaattt tccgggtcccc aggagcagga      420
gcagatctct ggggaaggta cacacctgat tcagaacaat atgcctggaa actatgtctt      480
cagttatgac cagtttttca gggacaagat catggagaag aaacaggatc acacctaccg      540
tgtgttcaag actgtgaacc gctgggctga tgcatatccc ttgcccacac atttctttga      600
ggcatctgtg gcctcaaagg atgtgtccgt ctggtgtagt aatgattacc tgggcatgag      660
ccgacaccct caggtcttgc aagccacaca ggagaccctg cagcgtcatg gtgctggagc      720
tggtggcacc cgcaacatct caggcaccag taagtttcat gtggagcttg agcaggagct      780
ggctgagctg caccagaagg actcagccct gctcttctcc tcctgctttg ttgccaatga      840
ctctactctc ttcaccttgg ccaagatcct gccagggtgc gagatttact cagacgcagg      900
caaccatgct tccatgatcc aaggtatccg taacagtgga gcagccaagt ttgtcttcag      960
gcacaatgac cctgaccacc taaagaaact tctagagaag tctaacccta agatacccaa     1020
aattgtggcc ttgagactg tccactccat ggatgggtgcc atctgtcccc tcgaggagtt     1080
gtgtgatgtg tcccaccagt atggggccct gaccttcgtg gatgagggtcc atgctgtagg     1140
actgtatggg tcccggggcg ctgggattgg ggagcgtgat ggaattatgc ataagattga     1200
catcatctct ggaactcttg gcaaggcctt tggtgtgtg ggcggctaca ttgccagcac     1260
ccgtgacttg gtggacatgg tgcgtccta tgctgcaggc ttcattctta ccacttctct     1320
gccccccatg gtgctctctg gagctctaga atctgtgcgg ctgctcaagg gagaggaggg     1380
ccaagccctg aggcgagccc accagcgcaa tgtcaagcac atgcgccagc tactcatgga     1440
cagggggcct cctgtcatcc cctgccccag ccacatcatc cccatccggg tgggcaatgc     1500
agcactcaac agcaagctct gtgatctcct gctctccaag catggcatct atgtgcaggc     1560
catcaactac ccaactgtcc cccgggggtga agagctcctg cgcttggcac cctcccccca     1620
ccacagccct cagatgatgg aagattttgt ggagaagctg ctgctggctt ggactgcggg     1680
ggggctgccc ctccaggatg tgtctgtggc tgctgcaat ttctgtcgcc gtcctgtaca     1740
ctttgagctc atgagtgagt gggaacgttc ctacttcggg aacatggggc ccagtatgt     1800
caccacctat gcctgagaag ccagctgcct aggattcaca cccacactgc gcttcacttg     1860
ggccaggcc tactcctgtc ttctgctttg ttgtgtgcct ctagctgaat tgagcctaaa     1920
aataaagcac aaaccac                                     1937

```

```

<210> 342
<211> 2673
<212> DNA
<213> Homo sapiens

```

<400> 342
 cggggtcacg ggcagttgca gccgcggccg agcagccagc cgctaagaaa gagctcgccg 60
 ctgccgctcc cggagccgcc gaggccagct tcgcggcgct gccccgcggc gggagaggag 120
 gctgcagaag agcggaggcg gccagcggga gcggcggggc tcagcgcgca cactcagcgg 180
 ccggggagcc tcccagagctc tgcgcccga cgcgccagcc gcggctcgcg cctttcttgg 240
 cctccggggcg cccgacctct cctccccgc gccggctcgc cggggccgcg gcggcccaag 300
 gagcagcatg aatctgcggc tctgcgtgca ggcgtcctg ctgctctggc tctccttgac 360
 cgcggtgtgt ggaggggtccc tgatgccgct tcccgatggg aatgggctgg aagacggcaa 420
 tgtccgccac ctggtgcagc ccagaggggtc aaggaatggg ccagggccct ggcagggagg 480
 tcggaggaaa ttccgccgcc agcggccccg cctctcccat aagggacca tgcccttctg 540
 aagcaggact gaagggggccc ccaagtggcc acccccggcg gttatgtctc ctccatagat 600
 tggctctgctt ctctggaggc ctcacgtcca ttcagctctc acctcgcacc tgctgtagcc 660
 accagtgggc ccagctcttc tcacctgcct gcttccccca gtggcgtgct cctggctgta 720
 gtttgatga tccccgttct ctcacaagaa tccgtccagt ccatcttctt ggccctctcc 780
 tggactgact ttggagacct agccccagaa agcctccctt cttctccagg tcccctccgc 840
 cctagtccct gcctgtctca tctaacgccc caaaccttca tttgggcctt ccttcctcat 900
 gtctgccctg agcgcggggg ggaagtgtc ccttctgtgg gctccagcag atcccttggt 960
 ttctgtcag ttggaccctt cacctggcct ccagggaga atgcagagaa aagcaaggag 1020
 agactctagt taagaggtgc tggctgccgg gatccagaca gggcacattg ggggcatgga 1080
 agtgccaggg tggttttcag gagctctggg gaagtgggtg gagcatcagc gtttgctcag 1140
 ttaagggaga ggtagagagg ggcccgtgaa gtcctttgtc acttctcttg ccttagtgtg 1200
 cctcccaata ctcccttctt cctgccccca cccccatcc ccagctagcc caagctccag 1260
 gtcaggaggg gagggtgctg ggcctgacat ggctatatac cctcccagga gtaaaagcca 1320
 agcaagaggt tgtttttgcc aagaatcaca gaatgttaga gctgacagga cccttgaagg 1380
 tcacttagcc ttcttaggca aacgcctgca aaacagaagc ctggagaggg gagtgacctg 1440
 ctcaagatca ttgcagagcc gggatgggga ccaggtctcc catctctac tttatgacgc 1500
 cctcttccct cttgatgatg tcttttcaaa gcaaataag tgccctttcc cgaggctggg 1560
 gctgggggtg gctgggaggg gaagggaagg gagaggcaag ctggctgtga actgtcctgt 1620
 tgtggggctg gagctgctcc cacctccctg acctaccct gctgcacat tccccagct 1680
 gggctggaag gttccataac tggccagctg cccccataac tggcagcatt cccagaccca 1740
 ggggtactcta atagggggcg ctcaggcact gagactaccg ctcaaccca gggtggtttt 1800

caggagtccg aggtagcctt caatcactgg actccatggc cttcccttcg tgttgaccgg 1860
 accttccttc cagggctttt cctttggggg aggcggagag gggagaagaa ggaaggggaag 1920
 ggcagaagga aggaggggaag aaaagaaagc aaaggaacag aaggaaggaa agaaagatgg 1980
 gaggaagtgc agcaggaata gcaccctctc cccgggaggc cctagcttcc gtgagggggc 2040
 atcaccagcc attccttgga gggggctttc tccccttttg cttgagcagg gttcccagga 2100
 gggagaaaga gaagacaaga gcctgatgcc caactttgtg tgtgtgggga cgggggagtc 2160
 agggccccc aagtcccaca atagcccca tggttgccca tccacctccc ccaagcccct 2220
 ttacctatgc tgctgctaac gctgctgctg ctgctgctgc tgcttaaagg ctcagtcttg 2280
 gagtggggac tggtcggtgc ccagaaagtc tcttctgcc a tgacgcccc catcagggat 2340
 tgggccttct tcccccttc ctttctgtgt ctctgcctc atcggcctgc catgacctgc 2400
 agccaagccc agccccgtgg ggaaggggag aaagtggggg atggctaaga aagctgggag 2460
 atagggaaaca gaagagggtg gtgggtgggc taggggggct gccttattta aagtggttgt 2520
 ttatgattct tatactaatt tatacaaaga tattaaggcc ctgttcatta agaaattggt 2580
 cccttcccct gtgttcaatg tttgtaaaga ttgttctgtg taaatatgtc ttataataa 2640
 acagttaaaa gctgaaaaaa aaaaaaaaaa aaa 2673

<210> 343
 <211> 1549
 <212> DNA
 <213> Homo sapiens

<400> 343
 aaacctctg taaagtaaca gaagttagaa ggggaaatgt cgctctctg aagattaccc 60
 aaagaaaaag tgatttgtca ttgctttata gactgtaaga agagaacatc tcagaagtgg 120
 agtcttacct tgaaatcaaa ggatttaaag aaaaagtggg atttttcttc agcaagctgt 180
 gaaactaaat ccacaacctt tggagaccca ggaacacct ccaatctctg tgtgttttgt 240
 aaacatcact ggaggggtctt ctacgtgagc aattggattg tcatcagccc tgctgtttt 300
 gcacctggga agtgccctgg tcttacttgg gtccaaattg ttggctttca cttttgacct 360
 taagcatctg aagccatggg ccacacacgg aggcaggga catcaccatc caagtgtcca 420
 tacctcaatt tctttcagct cttggtgctg gctgggtctt ctcacttctg ttcagggtgt 480
 atccacgtga ccaaggaagt gaaagaagtg gcaacgctgt cctgtggtca caatgtttct 540
 gttgaagagc tggcacaac tcgcatctac tggcaaaagg agaagaaaat ggtgctgact 600
 atgatgtctg gggacatgaa tatatggccc gagtacaaga accggaccat ctttgatatc 660
 actaataacc tctccattgt gatcctggct ctgcgcccat ctgacgaggg cacatacgag 720

tgtgttgttc	tgaagtatga	aaaagacgct	ttcaagcggg	aacacctggc	tgaagtgacg	780
ttatcagtc	aagctgactt	ccctacacct	agtatatctg	actttgaaat	tccaacttct	840
aatattagaa	ggataatttg	ctcaacctct	ggagggtttc	cagagcctca	cctctcctgg	900
ttggaaaatg	gagaagaatt	aatgccatc	aacacaacag	tttcccaaga	tcctgaaact	960
gagctctatg	ctgtagcag	caaactggat	ttcaatatga	caaccaacca	cagcttcatg	1020
tgtctcatca	agtatggaca	tttaagagt	aatcagacct	tcaactggaa	tacaaccaag	1080
caagagcatt	ttcctgataa	cctgctccca	tcctggggcca	ttaccttaat	ctcagtaa	1140
ggaatttttg	tgatatgctg	cctgacctac	tgctttgccc	caagatgcag	agagagaagg	1200
aggaatgaga	gattgagaag	ggaaagtgt	cgccctgtat	aacagtgtcc	gcagaagcaa	1260
ggggctgaaa	agatctgaag	gtagcctccg	tcctctcttc	tgggatacat	ggatcgtggg	1320
gatcatgagg	cattcttccc	ttaacaaatt	taagctgttt	taccactac	ctcaccttct	1380
taaaaacctc	tttcagatta	agctgaacag	ttacaagatg	gctggcatcc	ctctcctttc	1440
tccccatatg	caatttgctt	aatgtaacct	cttcttttgc	catgtttcca	ttctgccatc	1500
ttgaattgtc	ttgtcagcca	attcattatc	tattaaacac	taatttgag		1549

<210> 344
 <211> 2867
 <212> DNA
 <213> Homo sapiens

<400> 344	
tcccgtggag	cagaggggca aagtggcagg aacctcttaa agggcgagac gggcggcgac 60
cgagaacgcg	gtcggccccg tccccgccgc acccagccca gagaagagtt tagtgactga 120
ggccgaaaat	tcacagcacc aacagaagga agagggtgag gaagccataa actcaggcca 180
acaagaacct	cagcaggagg aatcttgtca aacagcagct gaaggagata attggtgtga 240
acacaagggt	aaagcttcta atggagacac tcctacacat gaagacttga ccaagaacaa 300
ggagcggaca	tcagaaagca gaggactttc acgactattc tcctcgtttc tcaaaaggcc 360
caaattctcag	gtgtccgagg aagaaggcaa agaagtagag tcagataaag aaaaagggtga 420
aggaggctcag	aaagagatag aatttggaac cagtcttgat gaagagatca ttttaaaggc 480
cccaattgca	gctcctgaac cggaactcaa aacagaccca tctttggatc ttcattcatt 540
aagcagtgca	gaaacacagc ctcaccatta caattaagaa ttatttttag agtcttctta 600
tttctgaagc	atgtgaatat tatctcgatc gttaaaagtc ctgctcagga agaactcaga 660
gaagatccag	attctgaaat taaggaagga gaaggacttg aagagtgtc caaaatagaa 720
gtaaaagaag	aaagccctca atcaaaagca gaaacagaat taaaagcttc caaaaacca 780

atcagaaaac	acaggaacat	gcactgcaag	gtttctttgt	tggatgacac	agtttatgaa	840
tgtgttgtgg	agaaacatgc	taagggacaa	gatttgctta	aacgagtatg	tgagcatctc	900
aatcttttgg	aagaagacta	ttttggtcta	gccatttggg	ataacgcaac	ctctaagaca	960
tggctggatt	ccgccaaaga	aataaaaaag	caggttcgtg	gtgtcccttg	gaattttaca	1020
tttaatgtaa	agttttatcc	acctgaccca	gcacagttaa	cagaagacat	aacaagatat	1080
tatttatgtc	ttcagcttcg	gcaggacata	gttgcaggac	gtctgccctg	ttcctttgca	1140
accttagcat	tattaggttc	ttacaccatc	cagtctgaac	tgggagacta	cgacccagaa	1200
ctccatggcg	tggattatgt	tagtgatttt	aaactggccc	cgaatcagac	caaggaactt	1260
gaagagaagg	tcattggaact	gcataagtca	tacagggtcca	tgactccagc	tcaggctgac	1320
ttggagtttc	ttgagaatgc	caaaaagttg	tctatgtatg	gagttgatct	tcataaagca	1380
aaggacttgg	aaggagtaga	tatcatccta	ggtgtctgct	ctagtggcct	tctggtttac	1440
aaagataagc	tgagaattaa	ccgcttcctt	tggcccaaag	tgctgaagat	ttcttataaa	1500
cgtagtagct	ttttcatcaa	gattcggcct	ggagagcaag	agcagtatga	aagtaccatc	1560
ggattcaaac	ttcccagtta	ccgagcagct	aagaaattat	ggaaagtctg	tgtagaacat	1620
cacacgtttt	tcagattgac	atctacagac	accattccca	aaagcaaatt	tcttgcgcta	1680
ggatccaaat	ttcgatacag	tggccggact	caagctcaga	ccaggcaagc	tagtgctcta	1740
attgacaggc	ctgccccaca	cttcgagcgt	acagcaagta	aacgggctgc	ccggagcctc	1800
gatggagcag	cagctgtcga	ttcggcagac	cgaagtcctc	ggcccacttc	tgcacctgcc	1860
attactcagg	gtcaggttgc	agaagggtgg	gtcctagatg	cctctgctaa	aaaaacagtg	1920
gtccctaaag	cacagaagga	aacagtgaag	gctgaagtga	aaaaggaaga	cgagccacct	1980
gagcaagctg	agccagagcc	cacagaagca	tggaagaaaa	agagagaaag	actagatggg	2040
gaaaacatth	atatcagaca	tagcaattta	atgttggagg	atttagacaa	gagtcaagag	2100
gagatcaaaa	aacatcatgc	cagcatcagt	gagctgaaaa	agaacttcat	ggagtctgta	2160
ccagaaccac	ggcctagtga	atgggataaa	cgcttatcca	ctcactcacc	cttccgaact	2220
cttaacatca	atgggcaaat	ccccacagga	gaaggacctc	ccctggtgaa	gacacaaact	2280
gtcaccatct	cagataatgc	caatgctgtg	aaaagtgaag	tcccaaccaa	agacgtccct	2340
attgtccaca	ctgagaccaa	gaccatcact	tatgaggctg	cccagactgt	aaaagggtggg	2400
atttcagaga	cacgtattga	aaagagaatt	gtgatcacag	gagatgctga	tattgaccat	2460
gatcagggtc	ttgtacaagc	catcaaggag	gcaaaggagc	agcaccacga	catgtcagtg	2520
accaagggtg	tcgtccacca	ggagaccgag	attgctgatg	agtgagctca	ggaactaacc	2580
taccccaact	ctgcccttct	cccatccaag	agaaaccacg	aaaatgataa	agaagctaac	2640

ctgccatagt cagacttcag actttcaaga ttattctaaa tcaccagaaa attaatttca 2700
 gtttctattg ggagtttata ccaagagatt cttctagatc tcattgatcc ttttgaagag 2760
 ctttttctat attaggatat cagaattgtt caacttttca ctctatagac tgttttaaga 2820
 gttttggggg gtttttaatt ggggtggttg taacccttc agcctag 2867

<210> 345
 <211> 3354
 <212> DNA
 <213> Homo sapiens

<400> 345
 ctgggtcctg tgtgtgccac aggggtgggg tgtccagcga gcggtctcct cctcctgcta 60
 gtgctgctgc ggcgccccgc ggcctccccg agtcgggcgg gaggggagag cgggtgtgga 120
 tttgtcttga cggtaattgt tgcgtttcca cgtctcggag gcctgcgcgc tgggttgctc 180
 cttcttcggg agcgagctgt tctcagcgat cccactcca gccggggctc cccacacaca 240
 ctgggctgcy tgcgtgtgga gtgggacccg cgcacacgcg tgtctctgga cagctacggc 300
 gccgaaagaa ctaaaattcc agatggcaaa ctcaatgaat ggcagaaacc ctgggtggctg 360
 aggaggaaat ccccgaaaag gtcgaatttt ggggtattatt gatgctattc aggatgcagt 420
 tggaccccct aagcaagctg ccgcagatcg caggaccgtg gagaagactt ggaagctcat 480
 ggacaaagtg gtaagactgt gccaaaatcc caaacttcag ttgaaaaata gccaccata 540
 tatacttgat attttgcctg atacatatca gcatttacga cttatattga gtaaatatga 600
 tgacaaccag aaacttgccc aactcagtga gaatgagtag tttaaaatct acattgatag 660
 ccttatgaaa aagtcaaaac gggcaataag actctttaaa gaaggcaagg agagaatgta 720
 tgaagaacag tcacaggaca gacgaaatct cacaaaactg tcccttatct tcagtcacat 780
 gctggcagaa atcaaagcaa tctttcccaa tggtaattc caggagata actttcgtat 840
 cacaaaagca gatgctgctg aattctggag aaagtttttt ggagacaaaa ctatcgtagc 900
 atggaaagta ttcagacagt gccttcatga ggtccaccag attagctcta gcctggaagc 960
 aatggctcta aaatcaacaa ttgatttaac ttgcaatgat tacatttcag tttttgaatt 1020
 tgatattttt accaggtgtt ttcagccttg gggctctatt ttgcggaatt ggaatttctt 1080
 agctgtgaca catccaggtt acatggcatt tctcacatat gatgaagtta aagcacgact 1140
 acagaaatat agcaccaaac ccggaagcta tattttccgg ttaagttgca ctcgattggg 1200
 acagtgggcc attggctatg tgactgggga tgggaatatc ttacagacca tacctcataa 1260
 caagccetta tttcaagccc tgattgatgg cagcaggga ggattttatc tttatcctga 1320
 tgggaggagt tataatcctg atttaactgg attatgtgaa cctacacctc atgaccatat 1380

aaaagttaca	caggaacaat	atgaattata	ttgtgaaatg	ggctccactt	ttcagctctg	1440
taagatttgt	gcagagaatg	acaaagatgt	caagattgag	ccttgtgggc	atttgatgtg	1500
cacctcttgc	cttacggcat	ggcaggagtc	ggatggtcag	ggctgccctt	tctgtcgttg	1560
tgaaataaaa	ggaactgagc	ccataatcgt	ggaccccttt	gatccaagag	atgaaggctc	1620
caggtgttgc	agcatcattg	accccttttg	catgccgatg	ctagacttgg	acgacgatga	1680
tgatcgtgag	gagtccttga	tgatgaatcg	gttggcaaac	gtccgaaagt	gcactgacag	1740
gcagaactca	ccagtcacat	caccaggatc	ctctccccct	gccagagaa	gaaagccaca	1800
gcctgaccca	ctccagatcc	cacatctaag	cctgccaccc	gtgcctcctc	gcctggatct	1860
aattcagaaa	ggcatagtta	gatctccctg	tggcagccca	acaggttcac	caaagtcttc	1920
tccttgcatg	gtgagaaaac	aagataaacc	actcccagca	ccacctcctc	ccttaagaga	1980
tcctcctcca	ccgccacctg	aaagacctcc	accaatccca	ccagacaata	gactgagtag	2040
acacatccat	catgtggaaa	gcgtgccttc	cagagaccgc	ccaatgcctc	ttgaagcatg	2100
gtgccctcgg	gatgtgtttg	ggactaatca	gcttgtggga	tgtcgactcc	taggggaggg	2160
ctctccaaaa	cctggaatca	cagcgagttc	aaatgtcaat	ggaaggcaca	gtagagtggg	2220
ctctgaccca	gtgcttatgc	ggaaacacag	acgccatgat	ttgcctttag	aaggagctaa	2280
ggctctttcc	aatggtcacc	ttggaagtga	agaatatgat	gttctctccc	ggctttctcc	2340
tcctcctcca	gttaccaccc	tcctccctag	cataaagtgt	actggtcctg	tagcaaattc	2400
tctttcagag	aaaacaagag	accagtaga	ggaagatgat	gatgaataca	agattccttc	2460
atccccacct	gtttccctga	attcacaacc	atctcattgt	cataatgtaa	aacctcctgt	2520
tcggtcctgt	gataatggtc	actgtatgct	gaatggaaca	catgggccat	cttcagagaa	2580
gaaatcaaac	atccctgact	taagcatata	tttaaagggt	acgtatagaa	tataatttcc	2640
tttgtgatgt	acatcttaat	ggtcagaatt	taaaggcaaa	atttcatgcc	attgtactga	2700
aaatacatta	aggttttgtg	ttatcctcta	ggagatgttt	ttgattcagc	ctctgatccc	2760
gtgccattac	cacctgccag	gcctccaact	cgggacaatc	caaagcatgg	ttcttcactc	2820
aacaggacgc	cctctgatta	tgatcttctc	atccctccat	taggttgaaa	cctttaaaaa	2880
agttttgaac	aaccaccccc	tccttctttt	aatttcagaa	ttttcagaat	tcagagttca	2940
gtataacaca	gactcactgg	gttgtgaatt	tgccctgaaat	ttgaatgggt	tctccagggtg	3000
ccggtgactc	ccaagttcac	gagaccatta	ctccatgtag	atgattaagg	tagtagtgta	3060
gtagttgggc	atcagtcagg	ttttaagcaa	gttgttttgt	ccatactaaa	tgtagtctaa	3120
aaacacatga	gagctttgtg	ctctagtagt	tttgaagtga	tgacttgaag	tgttgagatt	3180

ttctttaagt ataataattc ttaataaata tgaacttgct tttcttgag catgagcacc 3240
 agttccactt acgctaatta aattatgcaa aattaaatag ttgtatgtag agaactgata 3300
 ataaattctg ttttattcta atcattacaa ctgtaacaca ttcaaaaaaa aaaa 3354

<210> 346
 <211> 3655
 <212> DNA
 <213> Homo sapiens

<400> 346
 cttcagatag attatatctg gagtgaagga tcctgccacc tacgtatctg gcatagtatt 60
 ctgtgtagtg ggatgagcag agaacaaaaa caaaataatc cagtgagaaa agcccgtaaa 120
 taaaccttca gaccagagat ctattctcca gcttatttta agctcaactt aaaaagaaga 180
 actgttctct gattcttttc gccttcaata cacttaatga ttttaactcca cctccttca 240
 aaagaaacag catttcctac ttttatactg tctatatgat tgatttgcac agctcatctg 300
 gccagaagag ctgagacatc cgttccccta caagaaactc tccccgggtg gaacaagatg 360
 gattatcaag tgtcaagtcc aatctatgac atcaattatt atacatcgga gccctgccaa 420
 aaaatcaatg tgaagcaa atcgagccgc ctctgcctc cgctctactc actgggtgttc 480
 atctttgggt ttgtgggcaa catgctgggtc atctcatcc tgataaactg caaaaggctg 540
 aagagcatga ctgacatcta cctgctcaac ctggccatct ctgacctgtt tttccttctt 600
 actgtccctt tctgggtcct ctatgctgcc gccagtgagg actttggaaa tacaatgtgt 660
 caactcttga cagggctcta ttttataggc ttcttctctg gaatcttctt catcatcctc 720
 ctgacaatcg ataggtagct ggctgtcgtc catgctgtgt ttgctttaaa agccaggacg 780
 gtcacctttg ggggtgtgac aagtgtgatc acttgggtgg tggctgtgtt tgcgtctctc 840
 ccaggaatca tctttaccag atctcaaaaa gaaggctctc attacacctg cagctctcat 900
 tttccatata gtcagtatca attctggaag aatttccaga cattaaagat agtcatcttg 960
 gggctgggtc tgccgctgct tgtcatgggtc atctgtactc cgggaatcct aaaaactctg 1020
 cttcgggtgtc gaaatgagaa gaagaggcac agggctgtga ggcttatctt caccatcatg 1080
 attgtttatt ttctcttctg ggctccctac aacattgtcc ttctcctgaa caccttccag 1140
 gaattctttg gcctgaataa ttgcagtagc tctaacaggt tggaccaagc tatgcagggtg 1200
 acagagactc ttgggatgac gcactgctgc atcaacccca tcatctatgc ctttgtcggg 1260
 gagaagttca gaaactacct cttagtcttc ttccaaaagc acattgccaa acgcttctgc 1320
 aaatgctgtt ctattttcca gcaagaggct cccgagcgag caagctcagt ttacaccgga 1380
 tccactgggg agcaggaaat atctgtgggc ttgtgacacg gactcaagtg ggctgggtgac 1440

ccagtcagag	ttgtgcacat	ggcttagttt	tcatacacag	cctgggctgg	gggtggggtg	1500
ggagaggtct	tttttaaaag	gaagttactg	ttatagaggg	tctaagattc	atccatttat	1560
ttggcatctg	tttaaagtag	attagatctt	ttaagcccat	caattataga	aagccaaatc	1620
aaaatatgtt	gatgaaaaat	agcaaccttt	ttatctcccc	ttcacatgca	tcaagttatt	1680
gacaaactct	cccttcactc	cgaaagtcc	ttatgtatat	ttaaaagaaa	gcctcagaga	1740
attgctgatt	cttgagtta	gtgatctgaa	cagaaatacc	aaaattattt	cagaaatgta	1800
caacttttta	cctagtacaa	ggcaacatat	aggttgtaaa	tgtgtttaaa	acaggtcttt	1860
gtcttgctat	ggggagaaaa	gacatgaata	tgattagtaa	agaaatgaca	cttttcatgt	1920
gtgatttccc	ctccaaggta	tggttaataa	gtttcactga	cttagaacca	ggcgagagac	1980
ttgtggcctg	ggagagctgg	ggaagcttct	taaatgagaa	ggaatttgag	ttggatcatc	2040
tattgctggc	aaagacagaa	gcctcactgc	aagcactgca	tgggcaagct	tggctgtaga	2100
aggagacaga	gctgggtggg	aagacatggg	gaggaaggac	aaggctagat	catgaagaac	2160
cttgacggca	ttgctccgtc	taagtcatga	gctgagcagg	gagatcctgg	ttggtgttgc	2220
agaaggttta	ctctgtggcc	aaaggagggt	caggaaggat	gagcatttag	ggcaaggaga	2280
ccaccaacag	ccctcaggtc	agggtgagga	tggcctctgc	taagctcaag	gcgtgaggat	2340
gggaaggagg	gaggtattcg	taaggatggg	aaggagggag	gtattcgtgc	agcatatgag	2400
gatgcagagt	cagcagaact	ggggtggatt	tggtttgga	gtgagggtca	gagaggagtc	2460
agagagaatc	cctagtcttc	aagcagattg	gagaaaccct	tgaaaagaca	tcaagcacag	2520
aaggaggagg	aggaggttta	ggtcaagaag	aagatggatt	ggtgtaaaag	gatgggtctg	2580
gtttgcagag	cttgaacaca	gtctcaccca	gactccaggc	tgtctttcac	tgaatgcttc	2640
tgacttcata	gatttccttc	ccatcccagc	tgaaatactg	aggggtctcc	aggaggagac	2700
tagatttatg	aatacacgag	gtatgaggtc	taggaacata	cttcagctca	cacatgagat	2760
ctaggtgagg	attgattacc	tagtagtcat	ttcatgggtt	gttgggagga	ttctatgagg	2820
caaccacagg	cagcatttag	cacatactac	acattcaata	agcatcaaac	tcttagttac	2880
tcattcaggg	atagcactga	gcaaagcatt	gagcaaaggg	gtcccatata	ggtgagggaa	2940
gcctgaaaaa	ctaagatgct	gcctgcccag	tgacacaaag	tgtaggtatc	atthttctgca	3000
tttaaccgtc	aataggcaaa	ggggggaagg	gacatattca	tttggaata	agctgccttg	3060
agccttaaaa	cccacaaaag	tacaatttac	cagcctccgt	atttcagact	gaatgggggt	3120
ggggggggcg	ccttaggtac	ttattccaga	tgccttctcc	agacaaacca	gaagcaacag	3180
aaaaaatcgt	ctctccctcc	ctttgaaatg	aatatacccc	ttagtgtttg	ggtatattca	3240
tttcaaaggg	agagagagag	gtttttttct	gttctttctc	atatgattgt	gcacatactt	3300

gagactgttt tgaatttggg ggatggctaa aaccatcata gtacaggtaa ggtgagggaa 3360
 tagtaagtgg tgagaactac tcagggaatg aaggtgtcag aataataaga ggtgctactg 3420
 actttctcag cctctgaata tgaacggtga gcattgtggc tgtcagcagg aagcaacgaa 3480
 gggaaatgtc tttccttttg ctcttaagtt gtggagagtg caacagtagc ataggaccct 3540
 accctctggg ccaagtcaaa gacattctga catcttagta tttgcatatt cttatgtatg 3600
 tgaaagttac aaattgcttg aaagaaaata tgcattctaat aaaaaacacc ttcta 3655

<210> 347

<211> 5595

<212> DNA

<213> Homo sapiens

<400> 347

gcggagatgt gcaagtggcg aagcttgacc gagagcaggc tggagcagcc gcccaactcc 60
 tggcgcgggga tctgctgagg ggtcacggat tttaggtgat gggcaagtca gaaagtcaga 120
 tggatataac tgatatcaac actccaaagc caaagaagaa acagcgatgg actcgactgg 180
 agatcagcct ctcggtcctt gtctgtctcc tcaccatcat agctgtgaga atgatcgcac 240
 tctatgcaac ctacgatgat ggtatttgca agtcatcaga ctgcataaaa tcagctgctc 300
 gactgatcca aaacatggat gccaccactg agccttgtag agactttttc aaatatgctt 360
 gcggaggctg gttgaaacgt aatgtcattc ccgagaccag ctcccgttac ggcaactttg 420
 acattttaag agatgaacta gaagtcgttt tgaaagatgt ccttcaagaa cccaaaactg 480
 aagatatagt agcagtgacg aaagcaaaag cattgtacag gtcttgtata aatgaatctg 540
 ctattgatag cagaggtgga gaacctctac tcaaactggt accagacata tatgggtggc 600
 cagtagcaac agaaaactgg gagcaaaaat atggtgcttc ttggacagct gaaaaagcta 660
 ttgcacaact gaattctaaa tatgggaaaa aagtccttat taatttgttt gttggcactg 720
 atgataagaa ttctgtgaat catgtaattc atattgacca acctcgactt ggccctccctt 780
 ctagagatta ctatgaatgc actggaatct ataaagaggc ttgtacagca tatgtggatt 840
 ttatgatattc tgtggccaga ttgattcgtc aggaagaaag attgcccacg gatgaaaacc 900
 agcttgcttt ggaaatgaat aaagttatgg aattggaaaa agaaattgcc aatgctacgg 960
 ctaaacctga agatcgaaat gatccaatgc ttctgtataa caagatgaga ttggcccaga 1020
 tccaaaataa cttttcacta gagatcaatg ggaagccatt cagctgggtg aatttcacaa 1080
 atgaaatcat gtcaactgtg aatattagta ttacaaatga ggaagatgtg gttgtttatg 1140
 ctccagaata tttaaccaa cttaagccca ttcttaccaa atattctgcc agagatcttc 1200
 aaaatttaat gtcctggaga ttcataatgg atcttgtaag cagcctcagc cgaacctaca 1260

aggagtcag	aaatgctttc	cgcaaggccc	tttatggtac	aacctcagaa	acagcaactt	1320
ggagacgttg	tgcaaaactat	gtcaatggga	atatggaaaa	tgctgtgggg	aggctttatg	1380
tggaagcagc	atttgctgga	gagagtaaac	atgtggtcga	ggatttgatt	gcacagatcc	1440
gagaagtttt	tattcagact	ttagatgacc	tcacttggtg	ggatgccgag	acaaaaaaga	1500
gagctgaaga	aaaggcctta	gcaattaaag	aaaggatcgg	ctatcctgat	gacattgttt	1560
caaagataa	caaactgaat	aatgagtacc	tcgagttgaa	ctacaaagaa	gatgaatact	1620
tcgagaacat	aattcaaaat	ttgaaattca	gccaaagtaa	acaactgaag	aagctccgag	1680
aaaagggtgga	caaagatgag	tggataagtg	gagcagctgt	agtcaatgca	ttttactctt	1740
caggaagaaa	tcagatagtc	ttcccagccg	gcattctgca	gcccccttc	tttagtgccc	1800
agcagtccaa	ctcattgaac	tatgggggca	tcggcatggt	cataggacac	gaaatcacc	1860
atggcttcga	tgacaatggc	agaaacttta	acaaagatgg	agacctcgtt	gactgggtgga	1920
ctcaacagtc	tgcaagtaac	tttaaggagc	aatcccagtg	catgggtgtat	cagtatggaa	1980
acttttcctg	ggacctggca	ggtggacagc	accttaatgg	aattaataca	ctgggagaaa	2040
acattgctga	taatggaggt	cttgggtcaag	catacagagc	ctatcagaat	tatattaaaa	2100
agaatggcga	agaaaaatta	cttcctggac	ttgacctaaa	tcacaaacaa	ctatttttct	2160
tgaactttgc	acaggtgtgg	tgtggaacct	ataggccaga	gtatgcgggt	aactccatta	2220
aaacagatgt	gcacagtcca	ggcaatttca	ggattattgg	gactttgcag	aactctgcag	2280
agttttcaga	agcctttcac	tgccgcaaga	attcatacat	gaatccagaa	aagaagtgcc	2340
gggtttggtg	atcttcaaaa	gaagcattgc	agcccttggc	tagacttgcc	aacaccacag	2400
aaatggggaa	ttctctaata	gaaagaaaat	gggccctagg	ggtcactgta	ctgacttgag	2460
ggtgattaac	agagaggggca	ccatcacaat	acagataaca	ttagggtgtc	ctagaaaggg	2520
tgtggagggga	ggaaggggggt	ctaaggctca	tcaagtcaat	cattttctcac	tgtgtacata	2580
atgcttaatt	tctaaagata	atattactgt	ttatttctgt	ttctcatatg	gtctaccagt	2640
ttgctgatgt	ccctagaaaa	caatgcaaaa	cctttgaggt	agaccaggat	ttctaataca	2700
aagggaagaa	aagatgttga	agaatagagt	taggcaccag	aagaagagta	ggtgacacta	2760
tagtttaaaa	cacattgcct	aactactagt	ttttactttt	atttgcaaca	tttacagtcc	2820
ttcaaaatcc	ttccaaagaa	ttcttatata	cattggggcc	ttggagctta	catagtttta	2880
aactcatttt	tgccatacat	cagttattca	ttctgtgata	atttatattta	agcactctta	2940
aagcaaaaaa	tgaatgtcta	aaattgtttt	ttgtgtgata	tgctttgact	gatgctgaga	3000
ttcttcaggc	ttctgcaat	tttctaagca	atttcttgct	ctatctctca	aaacttggtg	3060

tttttcagag	atztatataa	atgtaaaaaat	aataatTTTT	atattttaatt	attaactaca	3120
tttatgagta	actattatta	taggtaatca	atgaatattg	aagtttcagc	ttaaaataaaa	3180
cagttgtgaa	ccaagatcta	taaagcgata	tacagatgaa	aatttgagac	tatttaaact	3240
tataaatcat	attgatgaaa	agatttaagc	acaaacttta	gggtaaaaat	tgcgattgga	3300
cagttgtcta	gagatatata	tacttgtggg	tttcaaattg	gactttcaaa	attaaatctg	3360
tccctgagag	tgtctctgat	aaaagggcaa	atctgcacct	atgtagctct	gcctctcctg	3420
tcttttcagg	tttgtcatca	gatggaaata	ttttgataat	aaattgaaat	tgtgaactca	3480
ttgctcccta	agactgtgac	aactgtctaa	ctttagaagt	gcatttctga	atagaaatgg	3540
gaggcctctg	atggaccttc	tagaattata	agtcacaaag	agttctggaa	aagaactggt	3600
tactgcttga	taggaattca	tcttttgagg	cttctgttcc	tctcttttcc	tgttgatttg	3660
actattttcg	ttcattactt	gattaagatt	ttacaaaaga	ggagcacttc	caaaattcct	3720
atttttccta	acaaaagatg	aaagcagga	atttctatct	aatgatgag	tattagttcc	3780
ctgtctcttg	aaaaatgccc	atttgccttt	aaaaaaaaaa	gttacagaaa	tactataaca	3840
tatgtacata	aattgcataa	agcataagta	tacagttcaa	taaacttaac	tttaactgaa	3900
caatggccct	gtagccagca	cctgtaagaa	acagagcagt	accagcgctc	taaaagcacc	3960
tccttgtcac	tttattactc	ccagaacaac	aactatcctg	acttctaata	tcattcacta	4020
gctttgcctg	gttttgtctt	ttatgcagat	agaatcaatc	agtatgtatt	cttttgtgcc	4080
tggttctttt	ctctcagcct	tacatttgtg	agattcctct	gtattgtgct	gattgtggat	4140
cttttcattc	tcattgcaga	ataatgttct	attgtgggac	ttattacaat	ttgttcatcc	4200
tattgttgat	gggcacttga	gaactttcca	ttttggcgct	attacaaata	gtgcaactat	4260
gaatgtactg	catgttacca	tcttacttga	gcctttaatg	gacttatttc	ttcaaatacct	4320
tccaaaaatt	attataagca	ttgaaattat	agtttcaagc	caactgtgga	tacccttacc	4380
ctttcctcct	ttatcacaac	caccgttaca	agtatactta	tatttcctta	aaatacatct	4440
aaaacttacc	taagtgcacat	ttgtagttgg	agtaatagga	gcttccagct	ctaataaaac	4500
agctgtctct	aacttatctt	atttccatca	tgtcagagca	gggaagagc	cagaagtga	4560
gagtgactag	tacaaattat	aaaagccac	tagactcttc	actgttagct	ttttaaaaca	4620
ttaggctccc	atccctatgg	aggaacaact	ctccagtgcc	tggatccctc	ctgtctacaa	4680
atataagatt	ttctgggcct	aaaggataga	tcaaagtcaa	aatagcaat	gcctccctat	4740
ccctcacaca	tccagacatc	atgaatttta	catgggtactc	ttgttgagtt	ctatagagcc	4800
ttctgatgtc	tctaaagcac	taccgattct	ttggagttgt	cacatcagat	aagacatatc	4860
tctaattcca	tccataaatc	cagttctact	atggctgagt	tctgggtcaa	gaaagaaagt	4920

ttagaagctg agacacaaag ggttgggagc tgatgaaact cacaaatgat ggtaggaaga	4980
agctctcgac aatacccggt ggcaaggagt ctgcctccat gctgcagtgt tgcagtggat	5040
tgtagggtgca agatggaaag gattgtaggt gcaagctgtc cagagaaaag agtccttggt	5100
ccagccctat tctgccactc ctgacagggt gaccttgggt atttgcaata ttcctttggg	5160
cctctgcttc tctcacctaa aaaaagagaa ttagattata ttggtggttc tcagcaagag	5220
aaggagtatg tgtccaatgc tgccttccca tgaatctgtc tcccagttat gaatcagtgg	5280
gcaggataaa ctgaaaactc ccatttaagt gtctgaatcg agtgagacaa aattttagtc	5340
caaataacaa gtaccaaagt tttatcaagt ttgggtctgt gctgctgtta ctgttaacca	5400
tttaagtggg gcaaaacctt gctaattttc tcaaaagcat ttatcattct tgttgccaca	5460
gctggagctc tcaaactaaa agacatttgt tattttggaa agaagaaaga ctctattctc	5520
aaagtttcct aatcagaaat ttttatcagt ttccagtctc aaaaatacaa aataaaaaca	5580
aacgttttta atact	5595

<210> 348
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 348	
cttagtaaca cgttgatgag aaatctactt tttccactct tgactcactc tgagccttca	60
cagggcagtc tgcaagatt gcaggcattg tttgttcttg tcttggattt atgcctttaa	120
atttcacctt ttattacaca gctatagcag gcctttttat gagactaacc tggcctctcc	180
actaaaggat gtgtgacttt ctggggacag aagagtacag tccctgacat cacacactgc	240
agagatggat aaccaaggag taatctactc agacctgaat ctgcccccaa acccaaagag	300
gcagcaacga aaacctaaag gcaataaaag ctccatttta gcaactgaac aggaaataac	360
ctatgcggaa ttaaaccttc aaaaagcttc tcaggatttt caagggaatg acaaaaccta	420
tcactgcaaa gatttaccat cagctccaga gaagctcatt gttgggatcc tgggaattat	480
ctgtcttata ttaatggcct ctgtggtaac gatagttgtt attccctcta cattaatata	540
gaggcacaac aattcttccc tgaatacaag aactcagaaa gcacgtcatt gtggccattg	600
tcctgaggag tggattacat attccaacag ttgttactac attggtaagg aaagaagaac	660
ttgggaagag agtttgctgg cctgtacttc gaagaactcc agtctgcttt ctatagataa	720
tgaagaagaa atgaaatttc tgtccatcat ttcaccatcc tcatggattg gtgtgtttcg	780
taacagcagt catcatccat gggtgacaat gaatggtttg gctttcaaac atgagataaa	840
agactcagat aatgctgaac ttaactgtgc agtgctacaa gtaaactgac ttaaatcagc	900

```

ccagtgtgga tcttcaataa tatatcattg taagcataag ctttagaggt aaagcgtttg      960
catttgcagt gcatcagata aattgtatat ttcttaaaat agaaatatat tatgattgca      1020
taaattcttaa aatgaattat gttatttgct ctaataagaa aattctaaat caattattga      1080
aacaggatac acacaattac taaagtacag acatcctagc atttgtgtcg ggctcatttt      1140
gctcaacatg gtatttgtgg ttttcagcct ttctaaaagt tgcattgttat gtgagtcagc      1200
ttataggaag taccaagaac agtcaaacc atggagacag aaagtagaat agtggttgcc      1260
aatgtctgag ggaggttgaa ataggagatg acctctaact gatagaacgt tactttgtgt      1320
cgtgatgaaa acttttctaaa tttcagtagt ggtgatgggt gtaactctgc gaatatacta      1380
aacatcattg atttttaatc attttaagt catgaaatgt atgctttgta cacgacactt      1440
caataaagct atccagaaaa aaaaaa                                     1466

```

```

<210> 349
<211> 2341
<212> DNA
<213> Homo sapiens

```

```

<400> 349
gattctgtgt gtgtcctcag atgctcagcc acagacctt gagggagtaa agggggcaga      60
ccccccacc ttgcctccag gctctttcct tcctggtcct gttctatggt ggggctccct      120
tgccagactt cagactgaga agtcagatga agtttcaaga aaaggaaatt ggtgggtgac      180
agagatgggt ggaggggctg gggaaaggct gtttacttcc tcctgtctag tcggtttggt      240
ccctttaggg ctccggatat ctttggtgac ttgtcctctc cagtgtggca tcatgtggca      300
gctgctcctc ccaactgctc tgctacttct agtttcagct ggcattgcga ctgaagatct      360
cccaaaggct gtggtgttcc tggagcctca atggtacagg gtgctcgaga aggacagtgt      420
gactctgaag tgccaggag cctactcccc tgaggacaat tccacacagt ggtttcacaa      480
tgagagcctc atctcaagcc aggctcag ctacttcatt gacgctgcca cagtcgacga      540
cagtggagag tacaggtgcc agacaaacct ctccaccctc agtgaccggg tgcagctaga      600
agtcacatc ggctggctgt tgctccaggc ccctcgggtg gtgttcaagg aggaagacct      660
tattcacctg aggtgtcaca gctggaagaa cactgctctg cataagggtca catatttaca      720
gaatggcaaa ggcaggaagt attttcatca taattctgac ttctacattc caaaagccac      780
actcaaagac agcggctcct acttctgcag ggggcttggt gggagtaaaa atgtgtcttc      840
agagactgtg aacatcacca tcactcaagg tttggcagtg tcaaccatct catcattctt      900
tccacctggg taccaagtct ctttctgctt ggtgatggta ctcttttttg cagtggacac      960
aggactatat ttctctgtga agacaaacat tcgaagctca acaagagact ggaaggacca      1020

```

taaatttaaa	tggagaaagg	accctcaaga	caaatagaccc	ccatcccatg	ggggaataaa	1080
gagcagtagc	agcagcatct	ctgaacattt	ctctggattt	gcaaccctat	catcctcagg	1140
cctctctaca	agcagcagga	aacatagaac	tcagagccag	atcccttatc	caactctcga	1200
cttttccttg	gtctccagt	gaagggaaaa	gcccattgatc	ttcaagcagg	gaagccccag	1260
tgagtagctg	cattcctaga	aattgaagtt	tcagagctac	acaaacactt	tttctgtccc	1320
aaccgttccc	tcacagcaaa	gcaacaatac	aggctaggga	tggtaatcct	ttaaacatac	1380
aaaaattgct	cgtgttataa	attaccagct	ttagagggga	aaaaaaaaaca	attattccta	1440
aataaatgga	taagtagaat	taatggttga	ggcaggacca	tacagagtgt	gggaactgct	1500
ggggatctag	ggaattcagt	gggaccaatg	aaagcatggc	tgagaaatag	caggtagtcc	1560
aggatagtct	aagggaggtg	ttcccatctg	agcccagaga	taaggggtgtc	ttcctagaac	1620
attagccgta	gtggaattaa	caggaaatca	tgaggggtgac	gtagaattga	gtcttccagg	1680
ggactctatc	agaactggac	catctccaag	tatataacga	tgagtcctct	taatgctagg	1740
agtagaaaat	ggtcctagga	aggggactga	ggattgcggt	gggggggtggg	gtggaaaaga	1800
aagtacagaa	caaaccctgt	gtcactgtcc	caagttgcta	agtgaacaga	actatctcag	1860
catcagaatg	agaaagcctg	agaagaaaga	accaaccaca	agcacacagg	aaggaaagcg	1920
caggaggtga	aaatgctttc	ttggccaggg	tagtaagaat	tagagggttaa	tgcagggact	1980
gtaaaaccac	cttttctgct	tcaatatcta	attcctgtgt	agctttgttc	attgcattta	2040
ttaaacaaat	gttgtataac	caatactaaa	tgtactactg	agcttcgctg	agttaagtta	2100
tgaaactttc	aaatccttca	tcatgtcagt	tccaatgagg	tggggatgga	gaagacaatt	2160
gttgcttatg	aaagaaagct	ttagctgtct	ctgttttgta	agctttaagc	gcaacatttc	2220
ttggttccaa	taaagcattt	tacaagatct	tgcatgctac	tcttagatag	aagatgggaa	2280
aaccatggta	ataaaatatg	aatgataaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2340
a						2341

<210> 350

<211> 887

<212> DNA

<213> Homo sapiens

<400> 350

tctttggtga	cttgtccact	ccagtgtggc	atcatgtggc	agctgctcct	cccaactgct	60
ctgtacttcc	tagtttcagc	tggcatgcgg	actgaagatc	tcccaaaggc	tgtggtgttc	120
ctggagcctc	aatggtacag	cgtgcttgag	aaggacagtg	tgactctgaa	gtgccaggga	180
gcctactccc	ctgaggacaa	ttccacacag	tggtttcaca	atgagagcct	catctcaagc	240

caggcctcga gctacttcat tgacgctgcc acagtcaacg acagtggaga gtacaggtgc 300
 cagacaaacc tctccaccct cagtgacccg gtgcagctag aagtccatat cggctggctg 360
 ttgctccagg cccctcgggtg ggtgttcaag gaggaagacc ctattcacct gaggtgtcac 420
 agctggaaga aactgctct gcataaggtc acatatttac agaatggcaa agacaggaag 480
 tattttcatc ataattctga cttccacatt ccaaaagcca cactcaaaga tagcggctcc 540
 tactttctgca gggggcttgt tgggagtaaa aatgtgtctt cagagactgt gaacatcacc 600
 atcactcaag gtttggcagt gtcaaccatc tcatcattct ctccacctgg gtaccaagtc 660
 tctttctgct tggatgatgt actccttttt gcagtggaca caggactata tttctctgtg 720
 aagacaaaca tttgaagctc aacaagagac tggaaggacc ataaacttaa atggagaaag 780
 gaccctcaag acaaatgacc cccatcccat gggagtaata agagcagtgg cagcagcatc 840
 tctgaacatt tctctggatt tgcaaccca tcctcctcag gcctctc 887

<210> 351
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<400> 351
 acaggggtga agggccagag accagcagaa cggcatccca gccacgacgg ccactttgct 60
 ctgtctgctg tccgccacgg cctgctctg ttccctggga ccccccgcc cccacctcct 120
 caggctgcct gatctgccc gctttccagc tttcctctgg attccggcct ctggatcatc 180
 ctccccaccc tctctccaag gccctctcct ggtctccctt cttctagaac ccttctcctc 240
 acctccctct ctgcagaact tctcctttac cccccacccc ccaccactgc cccctttcct 300
 tttctgacct ccttttggag ggctcagcgc tgcccagacc ataggagaga tgtgggaggg 360
 tcagttcctg ggcttgctgt ttctgcagcc gctttgggtg gctccagtga agcctctcca 420
 gccaggggct gaggtcccgg tgggtgtggg ccaggagggg gctcctgccc agctcccttg 480
 cagccccaca atccccctcc aggatctcag ccttctgcca agagcagggg tcacttggca 540
 gcatcagcca gacagtggcc cgcccgctgc cgccccggc catcccttg ccccgggccc 600
 tcacccggcg gcgcccctc cctggggggc caggccccgc cgtacacgg tgctgagcgt 660
 ggggtcccga ggcctgcga gcgggaggct gccctgcag ccccgctcc agctggatga 720
 gcgcgggccg cagcgcgggg acttctcgt atggtgcgc ccagcccggc gcgcgagcgc 780
 cggcgagtag cgcgccgagg tgcacctcag ggaccgcgc ctctcctgcc gcctccgtct 840
 gcgcctgggc caggcctcga tgactgccag cccccagga tctctcagag cctccgactg 900
 ggtcattttg aactgctcct tcagccgccc tgaccgcca gcctctgtgc attggttccg 960

```

gaaccggggc cagggccgag tccctgtccg ggagtccccc catcaccact tagcggaaag 1020
cttcctcttc ctgccccaaag tcagccccat ggactctggg ccctggggct gcatcctcac 1080
ctacagagat ggcttcaacg tctccatcat gtataacctc actgttctgg gtctggagcc 1140
cccaactccc ttgacagtgt acgctggagc aggttccagg gtggggctgc cctgccgcct 1200
gcctgctggt gtggggaccc ggtcttttct cactgccaag tggactcctc ctgggggagg 1260
ccctgacctc ctggtgactg gagacaatgg cgactttacc cttcgactag aggatgtgag 1320
ccaggccccag gctgggacct acacctgcca tatccatctg caggaacagc agctcaatgc 1380
cactgtcaca ttggcaatca tcacagtac tcccaaatcc tttgggtcac ctggatccct 1440
ggggaagctg ctttgtgagg tgactccagt atctggacaa gaacgctttg tgtggagctc 1500
tctggacacc ccatcccaga ggagtttctc aggaccttgg ctggaggcac aggaggccca 1560
gtccttttcc cagccttggc aatgccagct gtaccagggg gagaggcttc ttggagcagc 1620
agtgtacttc acagagctgt ctagcccagg tgcccaacgc tctgggagag cccaggtgc 1680
cctcccagca ggccacctcc tgctgtttct cacccttggg gtccttttctc tgctcctttt 1740
ggtgactgga gcctttggct ttcaccttg gagaagacag tggcgaccaa gacgattttc 1800
tgcttagag caagggattc accctccgca ggctcagagc aagatagagg agctggagca 1860
agaaccggag ccggagccgg agccggaacc ggagcccag cccgagcccg agccggagca 1920
gctctgacct ggagctgagg cagccagcag atctcagcag cccagtccaa ataaacgtcc 1980
tgtctagcag c 1991

```

```

<210> 352
<211> 3189
<212> DNA
<213> Homo sapiens

```

```

<400> 352
tttccagcca tggctgccat tacctgacca gcgccacagc cggctctctc gcaggcgccg 60
ggagaagtga ccagagcaat ttctgctttt cacagggcgg gtttctcaac ggtgacttgt 120
gggcagtgcc ttctgctgag cgagtcattg cccgaaggca gaactaactg tgctgcagt 180
cttcactctc aggatgcagc cgaggtgggc ccaaggggac acgatgtggc ttggagtcct 240
gctgacctt ctgctctgtt caagccttga gggtaagaa aactctttca caatcaacag 300
tggtgacatg aagagcctgc cggactggac ggtgcaaat gggaagaacc tgacctgca 360
gtgcttcgag gatgtcagca ccacctctca cgtcaagcct cagcaccaga tgctgttcta 420
taaggatgac gtgctgtttt acaacatctc ctccatgaag agcacagaga gttattttat 480
tcctgaagtc cggatctatg actcagggac atataaatgt actgtgattg tgaacaacaa 540

```

agagaaaacc	actgcagagt	accaggtggt	ggtggaagga	gtgcccagtc	ccaggggtgac	600
actggacaag	aaagaggcca	tccaaggtgg	gatcgtgagg	gtcaactggt	ctgtcccaga	660
ggaaaaggcc	ccaatacact	tcacaattga	aaaacttgaa	ctaaatgaaa	aaatgggtcaa	720
gctgaaaaga	gagaagaatt	ctcgagacca	gaattttgtg	atactggaat	tccccgttga	780
ggaacaggac	cgcgttttat	ccttccgatg	tcaagctagg	atcattttctg	ggatccatat	840
gcagacctca	gaatctacca	agagtgaact	ggtcaccgtg	acggaatcct	tctctacacc	900
caagttccac	atcagcccca	ccggaatgat	catggaagga	gctcagctcc	acattaagtg	960
caccattcaa	gtgactcacc	tggcccagga	gtttccagaa	atcataattc	agaaggacaa	1020
ggcgattgtg	gcccacaaca	gacatggcaa	caaggctgtg	tactcagtca	tggccatgggt	1080
ggagcacagt	ggcaactaca	cgtgcaaagt	ggagtccagc	cgcataacca	aggtcagcag	1140
catcgtggtc	aacataacag	aactattttc	caagcccgaa	ctggaatctt	ccttcacaca	1200
tctggacca	ggtgaaagac	tgaacctgtc	ctgctccatc	ccaggagcac	ctccagccaa	1260
cttcaccatc	cagaaggaag	atacgattgt	gtcacagact	caagatttca	ccaagatagc	1320
ctcaaagtcg	gacagtggga	cgtatatctg	cactgcaggt	attgacaaag	tgggtcaagaa	1380
aagcaacaca	gtccagatag	tcgtatgtga	aatgctctcc	cagcccagga	tttcttatga	1440
tgcccagttt	gaggtcataa	aaggacagac	catcgaagtc	cgttgcgaat	cgatcagtgg	1500
aactttgcct	atttcttacc	aacttttaaa	aacaagtaaa	gttttgagaa	atagtaccaa	1560
gaactcaa	gatcctgcgg	tattcaaaga	caacccact	gaagacgtcg	aataccagtg	1620
tgttgacagat	aattgccatt	cccacgcca	aatgttaagt	gaggttctga	gggtgaaggt	1680
gatagccccg	gtggatgagg	tccagatttc	tatcctgtca	agtaagggtg	tggagtctgg	1740
agaggacatt	gtgctgcaat	gtgctgtgaa	tgaaggatct	ggtcccatca	cctataagtt	1800
ttacagagaa	aaagagggca	aacccttcta	tcaaagacc	tcaaagcca	cccaggcatt	1860
ttggaccaag	cagaaggcta	acaaggaaca	ggagggagag	tattactgca	cagccttcaa	1920
cagagccaac	cacgcctcca	gtgtccccag	aagcaaaata	ctgacagtca	gagtcattct	1980
tgccccatgg	aagaaaggac	ttattgcagt	ggttatcatc	ggagtgatca	ttgctctctt	2040
gatcattgcg	gccaaatgtt	attttctgag	gaaagccaag	gccaaagcaga	tgccagtggg	2100
aatgtccagg	ccagcagtac	cacttctgaa	ctccaacaac	gagaaaatgt	cagatcccaa	2160
tatggaagct	aacagtcatt	acggtcacaa	tgacgatgtc	ggaaaccatg	caatgaaacc	2220
aataaatgat	aataaagagc	ctctgaactc	agacgtgcag	tacacggaag	ttcaagtgtc	2280
ctcagctgag	tctcaciaag	atctaggaaa	gaaggacaca	gagacagtgt	acagtgaagt	2340

```

ccggaaagct gtccctgatg ccgtggaaag cagatactct agaacggaag gctcccttga 2400
tggaacttag acagcaaggc cagatgcaca tccttggaag gacatccatg ttccgagaag 2460
aacagatgat ccctgtathtt caagacctct gtgcacttat ttatgaacct gccctgctcc 2520
cacagaacac agcaattcct caggctaagc tgccggttct taaatccatc ctgctaagtt 2580
aatgttgggg agaaagagat acagaggggc tgttgaatht cccacataca ctccctccac 2640
caagttggaa catccttgga aattggaaga gcacaagagg agatccaggg caaggccatt 2700
gggatattct gaaacttgaa tattttgttt tgtgcagaga taaagacctt ttccatgcac 2760
cctcatacac agaaaccaat tttctttttt atactcaatc atttctagcg catggcctgg 2820
ttagaggctg gttttttctc ttttcctttg gtccttcaaa ggcttgtagt tttgggtagt 2880
ccttgttctt tggaataaca cagtgtgac cagacagcct cccctgtcc cctctatgac 2940
ctcgccctcc acaaatggga aaaccagact acttgggagc accgcctgtg aaataccaac 3000
ctgaagacac gggttcattca ggcaacgcac aaaacagaaa atgaagggtg aacaagcaca 3060
gatgttcttc aactgttttt gtctacactc tttctctttt cctctaccat gctgaaggct 3120
gaaagacagg aagatgggtg catcagcaaa tattattctt aattgaaaac ttgaaaaaaa 3180
aaaaaaaaa

```

```

<210> 353
<211> 2657
<212> DNA
<213> Homo sapiens

```

```

<400> 353
ccccggcgga gggggcgga agagcgcgtc ctggccaagc cgagtagtgt cttccactcg 60
gtgcgtctct ctaggagccg cgcgggaagg atgctgggtc gcaggggagc gcgcgcaggg 120
cccaggatgc cgcggggctg gaccgcgctt tgcttgctga gtttgctgcc ttctgggttc 180
atgagtcttg acaacaacgg tactgctacc ccagagttac ctaccaggg aacattttca 240
aatgtttcta caaatgtatc ctaccaagaa actacaacac ctagtaccct tggaagtacc 300
agcctgcacc ctgtgtctca acatggcaat gagggcacia caaacatcac agaaacgaca 360
gtcaaatcca catctacctc tgtgataacc tcagtttatg gaaacacaaa ctcttctgtc 420
cagtcacaga cctctgtaat cagcacagtg ttcaccaccc cagccaacgt ttcaactcca 480
gagacaacct tgaagcctag cctgtcacct ggaaatgttt cagacctttc aaccactagc 540
actagccttg caacatctcc cactaaaccc tatacatcat cttctcctat cctaagtgc 600
atcaaggcag aatcaaatg ttcaggcatc agagaagtga aattgactca gggcatctgc 660
ctggagcaaa ataagacctc cagctgtgag gagtttaaga aggacagggg agagggcctg 720

```

gccccgagtgc tgtgtgggga ggagcaggct gatgctgatg ctggggccca ggtatgctcc	780
ctgctccttg cccagtctga ggtgaggcct cagtgtctac tgctggctct ggccaacaga	840
acagaaattt ccagcaaact ccaacttatg aaaaagcacc aatctgacct gaaaaagctg	900
gggatcctag atttcaactga gcaagatggt gcaagccacc agagctattc ccaaaagacc	960
ctgattgcac tggtcacctc gggagccctg ctggctgtct tgggcatcac tggctatttc	1020
ctgatgaatc gccgcagctg gagccccaca ggagaaaggc tggagctgga accctgacca	1080
ctcttcagga agaaaggagt ctgcacatgc agctgcaccc tccctccgat ccttccctcc	1140
acctccccct ccccttctc ccacctctgc cccacttcc tgtttgggccc ctctcccatc	1200
cagtgtctca cagccctgct taccagataa tgctacttta ttatacact gtctagggcg	1260
aagaccctta ttacacggaa aacggtggag gccagggcta tagctcagga cctgggacct	1320
cccctgaggc tcagggaag gccagtgtga accgaggggc tcaggaaaac gggaccggcc	1380
aggccacctc cagaaacggc cattcagcaa gacaacacgt ggtggctgat accgaattgt	1440
gactcggcta ggtggggcaa ggctgggcag tgtccgagag agcaccctc tctgcatctg	1500
accacgtgct acccccatgc tggagggtgac atctcttacg cccaaccctt cccactgca	1560
cacacctcag aggctgttct tggggcccta caccttgagg aggggcaggt aaactcctgt	1620
cctttacaca ttcgctccct ggagcagact ctggctcttct ttgggtaaac gtgtgacggg	1680
ggaaagccaa ggtctggaga agctcccagg aacaactgat ggccttgag cactcacaca	1740
ggacccccct cccctacccc ctctctctg ccgcaataca ggaaccccca ggggaaagat	1800
gagcttttct aggetacaat tttctcccag gaagctttga tttttaccgt ttcttccctg	1860
tattttcttt ctctactttg aggaaaccaa agtaaccttt tgcacctgct ctcttgtaat	1920
gatatagcca gaaaaacgtg ttgccttgaa ccacttccct catctctcct ccaagacact	1980
gtggacttgg tcaccagctc ctcccttggt ctctaagttc cactgagctc catgtgcccc	2040
ctctaccatt tgcagagtcc tgcacagttt tctggctgga gcctagaaca ggccctcccaa	2100
gttttaggac aaacagctca gttctagtct ctctggggcc acacagaaac tctttttggg	2160
ctcttttttc tccctctgga tcaaagtagg caggaccatg ggaccaggtc ttggagctga	2220
gcctctcacc tgtactcttc cgaaaaatcc tcttctctg aggetggate ctagccttat	2280
cctctgatct ccatggcttc ctctccctc ctgccgactc ctgggttgag ctggtgcctc	2340
agtcccccaa cagatgcttt tctgtctctg cctccctcac cctgagcccc ttccttgctc	2400
tgcaccccca tatggtcata gccagatca gctcctaacc cttatcacca gctgcctctt	2460
ctgtgggtga ccaggtcct tgtttgctgt tgatttcttt ccagaggggt tgaacaggga	2520
tcctggtttc aatgacggtt ggaaatagaa atttccagag aagagagtat tgggtagata	2580

ttttttctga atacaaagtg atgtgtttaa atactgcaat taaagtgata ctgaaacaca 2640

aaaaaaaaaa aaaaaaa 2657

<210> 354

<211> 2230

<212> DNA

<213> Homo sapiens

<400> 354

cttgagagaca acatgtggtt cttgacaact ctgctccttt gggttccagt tgatgggcaa 60
gtggacacca caaaggcagt gatcactttg cagcctccat gggtcagcgt gttccaagag 120
gaaaccgtaa ccttgcatg tgaggtgctc catctgcctg ggagcagctc tacacagtgg 180
tttctcaatg gcacagccac tcagacctcg acccccagct acagaatcac ctctgccagt 240
gtcaatgaca gtggtgaata caggtgccag agaggtctct cagggcgaag tgaccccata 300
cagctggaaa tccacagagg ctggctacta ctgcaggtct ccagcagagt cttcacggaa 360
ggagaacctc tggccttgag gtgtcatgcy tggaaggata agctgggtga caatgtgctt 420
tactatcgaa atggcaaagc ctttaagttt ttccactgga attctaacct caccattctg 480
aaaaccaaca taagtcacaa tggcacctac cattgctcag gcatgggaaa gcatcgctac 540
acatcagcag gaatatctgt cactgtgaaa gagctatttc cagctccagt gctgaatgca 600
tctgtgacat cccactcct ggaggggaat ctggtcaccc tgagctgtga aacaaagttg 660
ctcttgacaga ggcttggttt gcagctttac ttctccttct acatgggcag caagacctg 720
cgaggcagga acacatcctc tgaataccaa atactaactg ctagaagaga agactctggg 780
ttatactggg gcgaggctgc cacagaggat ggaaatgtcc ttaagcgag ccctgagttg 840
gagcttcaag tgcttgacct ccagttacca actcctgtct ggtttcatgt ccttttctat 900
ctggcagtgga gaataatgtt tttagtgaac actgttctct gggtgacaat acgtaaagaa 960
ctgaaaagaa agaaaaagtg ggatttagaa atctcttttg attctggta tgagaagaag 1020
gtaatttcca gccttcaaga agacagacat ttagaagaag agctgaaatg tcaggaacaa 1080
aaagaagaac agctgcagga aggggtgcac cggaaggagc cccagggggc cacgtagcag 1140
cggctcagtg ggtggccatc gatctggacc gtcccctgcc cacttgctcc ccgtgagcac 1200
tgcgtaacaa catccaaaag ttcaacaaca ccagaactgt gtgtctcatg gtatgtaact 1260
cttaaagcaa ataaatgaac tgacttcaac tgggatacat ttggaaatgt ggtcatcaaa 1320
gatgacttga aatgaggcct actctaaaga attcttga aaacttacaag tcaagcctag 1380
cctgataatc ctattacata gtttgaaaaa tagtatttta tttctcagaa caaggtaaaa 1440
aggtgagtggt gtgcatatgt acagaagatt aagacagaga aacagacaga aagagacaca 1500

```

cacacagcca ggagtgggta gatttcaggg agacaagagg gaatagtata gacaataagg 1560
aaggaaatag tacttacaaa tgactcctaa gggactgtga gactgagagg gctcacgcct 1620
ctgtgttcag gatacttagt tcatggcttt tctctttgac ttactaaaa gagaatgtct 1680
ccatacgctt tctaggcata caagggggta actcatgatg agaaatggat gtgttattct 1740
tgccctctct tttgaggctc tctcataacc cctctatttc tagagacaac aaaaatgctg 1800
ccagtcctag gccctgccc tgtaggaagg cagaatgtaa ctgttctgtt tgtttaacga 1860
ttaagtccaa atctccaagt gcggcactgc aaagagacgc ttcaagtggg gagaagcggc 1920
gataccatag agtccagatc ttgcctccag agatttgctt taccttcctg attttctggt 1980
tactaattag cttcaggata cgctgctctc atacttgggc ttagtatttg agacaaaata 2040
ttttctgcc actgtgtaac atagctgagg taaaaactga actatgtaaa tgactctact 2100
aaaagtttag ggaaaaaaaa caggaggagt atgacacaaa aaaaaaaaaa aaaaaaaaaa 2160
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa 2230

```

```

<210> 355
<211> 5010
<212> DNA
<213> Homo sapiens

```

```

<400> 355
ggcggctcgg gacggaggac gcgctagtgt gagtgcgggc ttctagaact acaccgaccc 60
tcgtgtctc ccttcacct gcggggctgg ctggagcggc cgctccggtg ctgtccagca 120
gccataggga gccgcacggg gagcgggaaa gcggtcgcgg ccccgaggcg ggcggccggg 180
atggagcggg gccgcgagcc tgtggggaag gggctgtggc ggcgcctcga gcggctgcag 240
gttcttctgt gtggcagttc agaatgatgg atcaagctag atcagcattc tctaacttgt 300
ttggtggaga accattgtca tatacccggt tcagcctggc tcggcaagta gatggcgata 360
acagtcattg ggagatgaaa cttgctgtag atgaagaaga aaatgctgac aataacacaa 420
aggccaatgt cacaaaacca aaaaggtgta gtggaagtat ctgctatggg actattgctg 480
tgatcgtctt tttcttgatt ggatttatga ttggctactt gggctattgt aaaggggtag 540
aaccaaaaac tgagtgtgag agactggcag gaaccgagtc tccagtgagg gaggagccag 600
gagaggactt ccctgcagca cgtcgcttat attgggatga cctgaagaga aagttgtcgg 660
agaaactgga cagcacagac ttcaccagca ccatcaagct gctgaatgaa aattcatatg 720
tccctcgtga ggctggatct caaaaagatg aaaatcttgc gttgtatgtt gaaaatcaat 780
ttcgtgaatt taaactcagc aaagtctggc gtgatcaaca ttttgtaag attcagggtca 840

```

aagacagcgc	tcaaaactcg	gtgatcatag	ttgataagaa	cggtagactt	gtttacctgg	900
tggagaatcc	tgggggttat	gtggcgata	gtaaggctgc	aacagttact	ggtaaactgg	960
tccatgctaa	ttttggtact	aaaaaagatt	ttgaggattt	atacactcct	gtgaatggat	1020
ctatagtgat	tgtcagagca	gggaaaatca	cctttgcaga	aaagggttgca	aatgctgaaa	1080
gcttaaattgc	aattggtgtg	ttgatataca	tggaccagac	taaatttccc	attgttaacg	1140
cagaactttc	attcttttga	catgctcatc	tggggacagg	tgacccttac	acacctggat	1200
tcccttcctt	caatcacact	cagtttccac	catctcggtc	atcaggattg	cctaataatac	1260
ctgtccagac	aatctccaga	gctgctgcag	aaaagctgtt	tgggaatatg	gaaggagact	1320
gtccctctga	ctggaaaaca	gactctacat	gtaggatggg	aacctcagaa	agcaagaatg	1380
tgaagctcac	tgtgagcaat	gtgctgaaag	agataaaaat	tcttaacatc	tttggagtta	1440
ttaaaggctt	tgtagaacca	gatcactatg	ttgtagttgg	ggcccagaga	gatgcatggg	1500
gccctggagc	tgcaaaatcc	ggtgtaggca	cagctctcct	attgaaactt	gccagatgt	1560
tctcagatat	ggtcttaaaa	gatgggtttc	agcccagcag	aagcattatc	tttgccagtt	1620
ggagtgtggtg	agacttttga	tcggttggtg	ccactgaatg	gctagaggga	tacctttcgt	1680
ccctgcattt	aaaggctttc	acttatatta	atctggataa	agcggttctt	ggtaccagca	1740
acttcaaggt	ttctgccagc	ccactgttgt	atagcttat	tgagaaaaca	atgcaaaatg	1800
tgaagcatcc	ggttactggg	caatttctat	atcaggacag	caactgggcc	agcaaagttg	1860
agaaactcac	tttagacaat	gctgctttcc	ctttccttgc	atattctgga	atcccagcag	1920
tttctttctg	tttttgcgag	gacacagatt	atccttattt	gggtaccacc	atggacacct	1980
ataaggaact	gattgagagg	attcctgagt	tgaacaaagt	ggcacgagca	gctgcagagg	2040
tcgctgggtca	gttcgtgatt	aaactaacc	atgatgttga	attgaacctg	gactatgaga	2100
ggtacaacag	ccaactgctt	tcatttgtga	gggatctgaa	ccaatacaga	gcagacataa	2160
aggaaatggg	cctgagttta	cagtggctgt	attctgctcg	tggagacttc	ttccgtgcta	2220
cttcagact	aacaacagat	ttcgggaatg	ctgagaaaac	agacagattt	gtcatgaaga	2280
aactcaatga	tcgtgtcatg	agagtggagt	atcacttcct	ctctccctac	gtatctccaa	2340
aagagtctcc	tttccgacat	gtcttctggg	gctccggctc	tcacacgctg	ccagctttac	2400
tggagaactt	gaaactgcgt	aaacaaaata	acggtgcttt	taatgaaacg	ctgttcagaa	2460
accagttggc	tctagctact	tggactattc	agggagctgc	aaatgccctc	tctggtgacg	2520
tttgggacat	tgacaatgag	ttttaaatgt	gatacccata	gcttccatga	gaacagcagg	2580
gtagtctggt	ttctagactt	gtgctgatcg	tgctaaattt	tcagtagggc	tacaaaacct	2640

gatgttaaaa ttccatccca tcatcttggt actactagat gtcttttaggc agcagctttt	2700
aatacagggg agataacctg tacttcaagt taaagtgaat aaccacttaa aaaatgtcca	2760
tgatggaata ttcccctatc tctagaattt taagtgcctt gtaatgggaa ctgcctcttt	2820
cctgttggtt ttaatgaaaa tgtcagaaac cagttatgtg aatgatctct ctgaatccta	2880
agggctgggc tctgctgaag gttgtaagtg gttcgcttac tttgagtgat cctccaactt	2940
catttgatgc taaataggag ataccagggt gaaagacctc tccaaatgag atctaagcct	3000
ttccataagg aatgtagcag gtttctcat tcctgaaaga aacagttaac tttcagaaga	3060
gatgggcttg ttttcttgcc aatgaggtct gaaatggagg tccttctgct ggataaaatg	3120
aggttcaact gttgattgca ggaataaggc cttaatatgt taacctcagt gtcatttatg	3180
aaaagagggg accagaagcc aaagacttag tatattttct tttctctgt ccttcccc	3240
ataagcctcc atttagttct ttgttatttt tgtttcttcc aaagcacatt gaaagagaac	3300
cagtttcagg tgtttagttg cagactcagt ttgtcagact ttaaagaata atatgctgcc	3360
aaattttggc caaagtgtta atcttagggg agagctttct gtccttttg cactgagata	3420
tttattgttt atttatcagt gacagagttc actataaatg gtgttttttt aatagaatat	3480
aattatcgga agcagtgcct tccataatta tgacagttat actgtcgggt ttttttaa	3540
aaaagcagca tctgctaata aaacccaaca gatactggaa gttttgcatt tatgggtcaac	3600
acttaagggg tttagaaaac agccgtcagc caaatgtaat tgaataaagt tgaagctaag	3660
atttagagat gaattaaatt taattagggg ttgctaagaa gcgagcactg accagataag	3720
aatgctgggt ttcttaaatt cagtgaattg tgaccaagtt ataaatcaat gtcacttaa	3780
ggctgtggta gtactctgc aaaattttat agctcagttt atccaagggt taactcta	3840
tcccatttgc aaaatttcca gtacctttgt cacaatccta acacattatc gggagcagt	3900
tcttccataa tgtataaaga acaaggtagt ttttacctac cacagtgtct gtatcggaga	3960
cagtgatctc catatgttac actaaggggt taagtaatta tcgggaacag tgtttcccat	4020
aattttcttc atgcaatgac atcttcaaag cttgaagatc gttagtatct aacatgtatc	4080
ccaactccta taattcccta tcttttagtt ttagttgcag aaacattttg tggtcattaa	4140
gcattgggtg ggtaaattca accactgtaa aatgaaatta ctacaaaatt tgaaatttag	4200
cttgggtttt tgttacctt atggtttctc caggctctct acttaatgag atagcagcat	4260
acatttataa tgtttgctat tgacaagtca ttttaattta tcacattatt tgcattgtac	4320
ctcctataaa cttagtgcg acaagtttta atccagaatt gaccttttga cttaaagcag	4380
agggactttg tatagaagggt ttgggggctg tggggaagga gagtcccctg aaggctgac	4440
acgtctgcct acccattcgt ggtgatcaat taaatgtagg tatgaataag ttcgaagctc	4500

```

cgtgagtga ccatcatata aacgtgtagt acagctgttt gtcatagggc agttggaaac 4560
ggcctcctag ggaaaagttc ataggggtctc ttcaggttct tagtgctact tacctagatt 4620
tacagcctca cttgaatgtg tcaactactca cagtctcttt aatcttcagt tttatcttta 4680
atctcctctt ttatcttgga ctgacattta gcgtagctaa gtgaaaaggt catagctgag 4740
attcctgggt cgggtgttac gcacacgtac ttaaatgaaa gcatgtggca tgttcacgt 4800
ataacacaat atgaatacag ggcatgcatt ttgcagcagt gagtctcttc agaaaaccct 4860
tttctacagt taggggtgag ttacttccta tcaagccagt acgtgctaac aggctcaata 4920
ttcctgaatg aaatatcaga ctagtgacaa gctcctggtc ttgagatgtc ttctcgtaa 4980
ggagtagggc cttttggagg taaaggata 5010

```

```

<210> 356
<211> 784
<212> DNA
<213> Homo sapiens

```

```

<400> 356
agcatttgct caggcagcct ctctgggaag atgctgcttc ttcctctccc cctgctgctc 60
tttctcttgt gctccagagc tgaagctggg gagatcatcg ggggcacaga atgcaagcca 120
cattcccgcc cctacatggc ctacctggaa attgtaactt ccaacgggtc ctcaaaatct 180
tgtgggtggt tccttataag acggaacttt gtgctgacgg ctgctcattg tgcaggaagg 240
tctataacag tcacccttgg agcccataac ataacagagg aagaagacac atggcagaag 300
cttgagggtta taaagcaatt ccgtcatcca aaatataaca cttctactct tcaccacgat 360
atcatgttac taaagttgaa ggagaaagcc agcctgaccc tggctgtggg gacactcccc 420
ttcccatcac aattcaactt tgtccacact gggagaatgt gccgggtggc tggctgggga 480
agaacagggtg tggtgaagcc gggctcagac actctgcaag aggtgaagct gagactcatg 540
gatccccagg cctgcagcca cttcagagac tttgaccaca atcttcagct gtgtgtgggc 600
aatcccagga agacaaaatc tgcatttaag ggagactctg ggggccctct tctgtgtgct 660
ggggtggccc agggcatcgt atcctatgga cggctggatg caaagcccc tgctgtcttc 720
acccgaatct ccattaccg gccctggatc aaccagatcc tgcaggcaaa ttaatcctgg 780
atcc 784

```

```

<210> 357
<211> 5084
<212> DNA
<213> Homo sapiens

```

```

<400> 357

```

gatcccatcg cagctaccgc gatgagaggc gctcgcggcg cctgggattt tctctgcgtt	60
ctgctcctac tgcttcgcgt ccagacaggc tcttctcaac catctgtgag tccaggggaa	120
ccgtctccac catccatcca tccaggaaaa tcagacttaa tagtccgcgt gggcgacgag	180
attaggctgt tatgcactga tccgggcttt gtcaaattga cttttgagat cctggatgaa	240
acgaatgaga ataagcagaa tgaatggatc acggaaaagg cagaagccac caacaccggc	300
aaatacacgt gcaccaacaa acacggctta agcaattcca tttatgtgtt tgtagagat	360
cctgccaaagc ttttccttgt tgaccgctcc ttgtatggga aagaagacaa cgacacgctg	420
gtccgctgtc ctctcacaga cccagaagtg accaattatt ccctcaagggt gtgccagggg	480
aagcctcttc ccaaggactt gaggtttatt cctgaccca aggcgggcat catgatcaaa	540
agtgtgaaac gcgcctacca tcggctctgt ctgcattgtt ctgtggacca ggagggcaag	600
tcagtgtgtt cggaaaaatt catcctgaaa gtgaggccag ccttcaaagc tgtgcctgtt	660
gtgtctgtgt ccaaagcaag ctatcttctt agggaagggg aagaattcac agtgacgtgc	720
acaataaaag atgtgtctag ttctgtgtac tcaacgtgga aaagagaaaa cagtcagact	780
aaactacagg agaaatataa tagctggcat cacgggtgact tcaattatga acgtcaggca	840
acgttgacta tcagttcagc gagagttaat gattctggag tgttcattgt ttatgccaat	900
aatacttttg gatcagcaaa tgtcacaaca accttggaag tagtagataa aggattcatt	960
aatatcttcc ccatgataaa cactacagta tttgtaaagc atggagaaaa tgtagatttg	1020
attgttgaat atgaagcatt ccccaaacct gaacaccagc agtggatcta tatgaacaga	1080
accttcaactg ataaatggga agattatccc aagtctgaga atgaaagtaa tatcagatac	1140
gtaagtgaac ttcattctaac gagattaaaa ggcaccgaag gaggcactta cacattccta	1200
gtgtccaatt ctgacgtcaa tgctgccata gcatttaattg tttatgtgaa taaaaacca	1260
gaaatcctga cttacgacag gctcgtgaat ggcattgctc aatgtgtggc agcaggattc	1320
ccagagccca caatagattg gtatttttgt ccaggaactg agcagagatg ctctgcttct	1380
gtactgccag tggatgtgca gacactaaac tcattctggc caccgtttgg aaagctagt	1440
gttcagagtt ctatagattc tagtgatttc aagcacaatg gcacgggtga atgtaaggct	1500
tacaacgatg tgggcaagac ttctgcctat ttttaactttg catttaaagg taacaacaaa	1560
gagcaaatcc atccccacac cctgttcaact cctttgctga ttggtttcgt aatcgtagct	1620
ggcatgatgt gcattattgt gatgattctg acctacaaat atttacagaa acccatgtat	1680
gaagtacagt ggaaggttgt tgaggagata aatggaaaca attatgttta catagaccca	1740
acacaacttc cttatgatca caaatgggag tttcccagaa acaggctgag ttttgggaaa	1800
accctgggtg ctggagcttt cggaaggtt gttgaggcaa ctgcttatgg cttaattaag	1860

tcagatgcgg	ccatgactgt	cgctgtaaag	atgctcaagc	cgagtgccca	tttgacagaa	1920
cggaagccc	tcatgtctga	actcaaagtc	ctgagttacc	ttggtaatca	catgaatatt	1980
gtgaatctac	ttggagcctg	caccattgga	gggcccaccc	tggtcattac	agaatattgt	2040
tgctatggtg	atcttttgaa	ttttttgaga	agaaaacgtg	attcatttat	ttgttcaaag	2100
caggaagatc	atgcagaagc	tgcactttat	aagaatcttc	tgcatc aaa	ggagtcttcc	2160
tgcagcgata	gtactaatga	gtacatggac	atgaaacctg	gagtttctta	tgttgtccca	2220
accaaggccg	acaaaaggag	atctgtgaga	ataggctcat	acatagaaag	agatgtgact	2280
cccgccatca	tggaggatga	cgagttggcc	ctagacttag	aagacttgct	gagcttttct	2340
taccaggtgg	caaagggcat	ggctttcctc	gcctccaaga	attgtattca	cagagacttg	2400
gcagccagaa	atatacctct	tactcatggg	cggatcacaa	agatttgtga	ttttgggtcta	2460
gccagagaca	tcaagaatga	ttctaattat	gtgggttaaag	gaaacgctcg	actacctgtg	2520
aagtggatgg	cacctgaaag	cattttcaac	tgtgtataca	cgtttgaaag	tgacgtctgg	2580
tcctatggga	tttttctttg	ggagctgttc	tctttaggaa	gcagccccta	tcctggaatg	2640
ccggtcgatt	ctaagttcta	caagatgatc	aaggaaggct	tccggatgct	cagccctgaa	2700
cacgcacctg	ctgaaatgta	tgacataatg	aagacttgct	gggatgcaga	tcccctaaaa	2760
agaccaacat	tcaagcaaat	tgttcagcta	attgagaagc	agatttcaga	gagcaccaat	2820
catatttact	ccaacttagc	aaactgcagc	ccaaccgac	agaagcccgt	ggtagaccat	2880
tctgtgcgga	tcaattctgt	cggcagcacc	gcttcctcct	cccagcctct	gcttgtgcac	2940
gacgatgtct	gagcagaatc	agtgtttggg	tcacccctcc	aggaatgate	tcttcttttg	3000
gcttccatga	tggttatttt	cttttctttc	aacttgcata	caactccagg	atagtgggca	3060
ccccactgca	atcctgtctt	tctgagcaca	ctttagtggc	cgatgatttt	tgatcatcagc	3120
caccatccta	ttgcaaagg	tccaactgta	tatattccca	atagcaacgt	agcttctacc	3180
atgaacagaa	aacattctga	tttggaaaaa	gagagggagg	tatggactgg	gggccagagt	3240
cctttccaag	gcttctccaa	ttctgccc aa	aaatatgggt	gatagt ttac	ctgaataaat	3300
ggtagtaatc	acagt tggcc	ttcagaacca	tccatagtag	tatgatgata	caagattaga	3360
agctgaaaac	ctaagtcctt	tatgtggaaa	acagaacatc	attagaacaa	aggacagagt	3420
atgaacacct	gggcttaaga	aatctagtat	ttcatgctgg	gaatgagaca	taggcatga	3480
aaaaaatgat	ccccaa ggt	gaacaaaaga	tgctcttctg	tggaccactg	catgagcttt	3540
tatactaccg	acctgg tttt	taaatagagt	ttgctattag	agcattgaat	tggagagaag	3600
gcctccctag	ccagcacttg	tatatacgca	tctataaatt	gtccgtgttc	atacatttga	3660

```

ggggaaaaca ccataagggtt tcgtttctgt atacaaccct ggcattatgt ccactgtgta 3720
tagaagtaga ttaagagcca tataagtttg aaggaaacag ttaataccat tttttaagga 3780
aacaatataa ccacaaagca cagtttgaac aaaatctcct cttttagctg atgaacttat 3840
tctgtagatt ctgtggaaca agcctatcag cttcagaatg gcattgtact caatggattt 3900
gatgctgttt gacaaagtta ctgattcact gcatggctcc cacaggagtg ggaaaacact 3960
gccatcttag tttggattct tatgtagcag gaaataaagt ataggtttag cctccttcgc 4020
aggcatgtcc tggacaccgg gccagtatct atatatgtgt atgtacgttt gtatgtgtgt 4080
agacaaatat ttggaggggt atttttgccc tgagtccaag agggtccttt agtacctgaa 4140
aagtaacttg gctttcatta ttagtactgc tcttgtttct tttcacatag ctgtctagag 4200
tagcttacca gaagcttcca tagtggtgca gaggaagtgg aaggcatcag tccctatgta 4260
tttgagttc acctgcactt aaggcactct gttatttaga ctcatcttac tgtacctgtt 4320
ccttagacct tccataatgc tactgtctca ctgaaacatt taaattttac ccttttagact 4380
gtagcctgga tattattctt gtagtttacc tctttaaaaa caaaacaaaa caaaacaaaa 4440
aactccccct cctcactgcc caatataaaa ggcaaatgtg tacatggcag agtttgtgtg 4500
ttgtcttgaa agattcaggt atgttgccct tatggtttcc cccttctaca tttcttagac 4560
tacatttaga gaactgtggc cgttatctgg aagtaaccat ttgcaactgga gttctatgct 4620
ctcgcacctt tccaaagtta acagattttg gggttgtgtt gtcacccaag agattgttgt 4680
ttgccatact ttgtctgaaa aattcctttg tgtttctatt gacttcaatg atagtaagaa 4740
aagtggttgt tagttataga tgtctaggtta cttcaggggc acttcattga gagttttgtc 4800
ttgccatact ttgtctgaaa aattcctttg tgtttctatt gacttcaatg atagtaagaa 4860
aagtggttgt tagttataga tgtctaggtta cttcaggggc acttcattga gagttttgtc 4920
aatgtctttt gaatattccc aagcccatga gtccttgaaa atatttttta tatatacagt 4980
aactttatgt gtaaatacat aagcggcgta agtttaaagg atgttggtgt tccacgtgtt 5040
ttattcctgt atgttgtcca attgttgaca gttctgaaga attc 5084

```

```

<210> 358
<211> 3646
<212> DNA
<213> Homo sapiens

```

```

<400> 358
cctgaaggga ggatgggcta aggcaggcac acagtggcgg agaagatgcc ctctggggcc 60
ctcttcatgg tcacctctg cctcctctg gcccctcaa acctggccca agtcagcagc 120
caagatgtct ccttgctggc atcagactca gagccctga agtgtttctc ccgaacattt 180

```

gaggacctca cttgcttctg ggatgaggaa gaggcagcgc ccagtgggac ataccagctg	240
ctgtatgcct acccgcgga gaagccccgt gcttgcccc tgagttccca gagcatgccc	300
cactttggaa cccgatacgt gtgccagttt ccagaccagg aggaagtgcg tctcttcttt	360
ccgctgcacc tctgggtgaa gaatgtgttc ctaaaccaga ctccgactca gcgagtcctc	420
tttgtggaca gtgtaggcct gccggctccc ccagtatca tcaaggccat ggggtgggagc	480
cagccagggg aacttcagat cagctgggag gagccagctc cagaaatcag tgatttcctg	540
aggtacgaac tccgctatgg cccagagat cccaagaact ccactggctc cacggtcata	600
cagctgattg ccacagaaac ctgctgccct gctctgcaga ggcctcactc agcctctgct	660
ctggaccagt ctccatgtgc tcagcccaca atgccctggc aagatggacc aaagcagacc	720
tccccaagta gagaagcttc agctctgaca gcagaggggtg gaagctgcct catctcagga	780
ctccagcctg gcaactccta ctggctgcag ctgctgcagc aacctgatgg gatctccctc	840
gggtggctcct ggggatcctg gtccctccct gtgactgtgg acctgcctgg agatgcagtg	900
gcacttggac tgcaatgctt taccttggac ctgaagaatg ttacctgtca atggcagcaa	960
caggaccatg ctagctccca aggtctcttc taccacagca gggcacgggtg ctgccccaga	1020
gacaggtacc ccatctggga gaactgcga gaggaagaga aaacaaatcc aggactacag	1080
acccacagct tctctcgctg ccacttcaag tcacgaaatg acagcattat tcacatcctt	1140
gtggaggtga ccacagcccc gggactgtt cacagctacc tgggtcccc tttctggatc	1200
caccaggctg tgctcctccc caccctaac ttgactgga gggagatctc cagtgggcat	1260
ctggaattgg agtggcagca cccatcgctc tgggcagccc aagagacctg ttatcaactc	1320
cgatacacag gagaaggcca tcaggactgg aaggtgctgg agccgcctct cggggcccgga	1380
ggagggaccc tggagctgcg cccgcgatct cgctaccgtt tacagctgcg cgccaggctc	1440
aacggcccca cctaccaagg tccctggagc tcgtggctcg acccaactag ggtggagacc	1500
gccaccgaga ccgcctggat ctcttgggtg accgctctgc atctagtgtt gggcctcagc	1560
gccgtcctgg gcctgtgtt gctgaggtgg cagtttctct cactacag gagactgagg	1620
catgccctgt ggcctcact tccagacctg caccgggtcc taggccagta ccttagggac	1680
actgcagccc tgagcccgcc caaggccaca gtctcagata cctgtgaaga agtgaaccc	1740
agcctccttg aaatcctccc caagtcctca gagaggactc ctttgccct gtgttcctcc	1800
caggcccaga tggactaccg aagattgcag ccttcttgcc tggggaccat gccctgtct	1860
gtgtgcccac ccatggctga gtcagggtcc tgctgtacca cccacattgc caaccattcc	1920
tacctaccac taagctattg gcagcagcct tgaggacagg ctctcactc ccagttccct	1980
ggacagagct aaactctcga gacttctctg tgaacttccc taccctaccc ccacaacaca	2040

```

agcaccccag acctcacctc catccccctc tgtctgccct cacaattagg cttcattgca 2100
ctgatcttac tctactgctg ctgacataaa accaggaccc tttctccaca ggcaggctca 2160
tttactaag ctctcctttt acttcctctc tcctctttga tgtcaaacgc cttgaaaaca 2220
agcctccact tccccacact tcccatttac tcttgagact acttcaatta gttcccctac 2280
tacactttgc tagtgaactg cccaggcaaa gtgcacctca aatcttctaa ttccaagatc 2340
caataggatc tcgttaatca tcagttcctt tgatctcgct gtaagatttg tcaaggctga 2400
ctactcactt ctcttttaaa ttctttccta ccttggtcct gcctctttga gtatattagt 2460
aggttttttt tatttgtttg agacagggtc tcactctgtc acccaggctg cagtgcaatg 2520
gcgcgatctc agctcactgc aacctccacc tccgggttca agcgattctt gtgcctcggc 2580
ctccctagta gctgggatta caggcgcaca ccaccacaca cagctaattt tttttttttt 2640
tttttttttt tttttttttt ttagacggag ccttgctgtg tgccagactg gagtgcagtg 2700
gcacgatctc ggctcactgc aacctctgcc tccgggttca aagccattct gcctcagcct 2760
cccaagtagc tgggagtaca gcgtctgcca ccatgcctaa tttttttcta tttttaggag 2820
agaccgggtt tcaccacgtt ggccaggatg gtctcgatat ctgatctcgt gatccgcctg 2880
cctctgcctc ccaaagtgtt gggattacag gtgtgacca ctgcgcacag cccagctaa 2940
ttttcatatt ttagtagag acaggggttt gccatgttgc ccaggctggt cttgaactcc 3000
taacctcggg tgatccaccc accttggcct cccaaagtgt taggattaca ggcatgagcc 3060
actgcgcccg gctgagtgtg ctagtagtta agagaataaa ctagatctag aatcagagct 3120
ggattcaatt cctgtccttc acatttacta gctgtgcaac cttgggcaca taacttaatg 3180
tctttgagcc ttagtttttt catctgtaaa acagggataa taacagcacc ccatagagtt 3240
gtgacgagga ttgagataat ctaagtaaag cacagtcctt aggacatagt aaatgattca 3300
tatatccgaa ctactgttat aattattcct tcttactctc ctcttctagc atttcttcca 3360
attattacag tccttcaaga ttccatttct taacagtctc caatcccata tattctctgc 3420
ctttactata tgttgaccat tccaaagttc ttatctctag ctgagacatc tactacagca 3480
ctgtgatgct ttatgcaact aactgtttac atatctgtcc cctgctacta gattgtgagc 3540
tccttgaggg aaaggaacat gatttatttg tccttttccc ccagcaccta gagtagtgct 3600
tggtgcatga tagtaggcct tcaataaatt ttttctaaat gaatga 3646

```

```

<210> 359
<211> 4010
<212> DNA
<213> Homo sapiens

```

<400> 359
 cggagggggc gggccgggct gcgttcgctc cagccgcggc tctacagcag cgggcggcgg 60
 gacccgggac ccagcttggc gacggcgatt ctcgacgcgg gccccagga ttctcccggc 120
 gccccacctc tggagcagcc cctgccgcca gcgtcaggtc caccgccgaa tcccagggac 180
 tctcggcgcc gaacggaccc gggccgggtgc aacgggggtcc ccggactgga gaagacgcgg 240
 gtggcaccgt gcgagctcca ggagccccgg gtccactgcg aggcctcggg gggcgcagac 300
 ctgcagagac tgcggccaac gggaagaaat aaagggatta tagtccaccc aattcacaga 360
 cttctgagac tcagacacga ggagagatag agaaccgcca atctctagat caacaagcaa 420
 aggaggtgcc aagcctgttt gtcttcattg tgacactgga gtctagatgc tgggaagtcc 480
 aagatcaggg tgccggcatg gtcagttcct ggcaagcct ctcttctagg ttccagactg 540
 ccctcttctt tgttggtgctc tcgaatggca gaaaaagggg tggctggtgg aggaagggag 600
 gagagtaaat gaagagaaaag aactggaata accccttgca gaaaaaaaaa aaaagggaag 660
 cttagctgta caccctgagt cttgcaaaag ctgcagcccc acccaggagc aggggtggtgg 720
 ctggggcgat ggtggacgcc ctgaagatgt cccatggcta ctgaaggggc tgcccagtta 780
 gggaacagag tggcgggcat ggtgtgtagc ctatgggtgc tgctcctggt gtcttcagtt 840
 ctggctctgg aagaggtatt gctggacacc accggagaga catctgagat tggctggctc 900
 acctaccac caggggggtg ggacgaggtg agtgttctg acgaccagcg acgcctgact 960
 cggacctttg aggcattgca tgtggcaggg gccctccag gcaccgggca ggacaattgg 1020
 ttgcagacac actttgtgga gcggcgcggg gccagaggg cgcacattcg actccacttc 1080
 tctgtgcggg catgctccag cctgggtgtg agcggcgcca cctgccggga gaccttcacc 1140
 ctttactacc gtcaggctga ggagcccgac agccctgaca gcgtttcctc ctggcacctc 1200
 aaacgctgga ccaagggtgga cacaattgca gcagacgaga gctttccctc ctctcctcc 1260
 tcctcctcct cttcttcctc tgcagcgtgg gctgtgggac cccacggggc tgggcagcgg 1320
 gctggactgc aactgaacgt caaagagcgg agctttgggc ctctcaccca acgcggcttc 1380
 tacgtggcct tccaggacac gggggcctgc ctggccctgg tcgctgtcag gctcttctcc 1440
 tacacctgcc ctgccgtgct ccgatccttt gcttcctttc cagagacgca ggccagtggg 1500
 gctggggggg cctccctggt ggcagctgtg ggcacctgtg tggctcatgc agagccagag 1560
 gaggatggag tagggggcca ggcaggaggc agcccccca ggctgcactg caacggggag 1620
 ggcaagtgga tggtagctgt cgggggctgc cgctgccagc ctggatacca accagcacga 1680
 ggagacaagg cctgccaagc ctgccacgg gggctctata agtcttctgc tgggaatgct 1740
 ccctgctcac catgccctgc ccgcagtcac gctcccaacc cagcagcccc cgtttgcccc 1800

tgcctggagg gcttctaccg ggccagttcc gacccaccag agggcccctg cactggctct	1860
ccatcggctc cccaggagct ttggtttgag gtgcaaggct cagcactcat gctacactgg	1920
cgctgcctc gggagctggg gggtcgaggg gacctgctct tcaatgtcgt gtgcaaggag	1980
tgtgaaggcc gccaggaacc tgccagcggg ggtgggggca cttgtcaccg ctgcagggat	2040
gaggtccact tcgaccctcg ccagagaggc ctgactgaga gccgagtgtt agtgggggga	2100
ctccgggcac acgtacccta catcttagag gtgcaggctg ttaatggggg gtctgagctc	2160
agccctgacc ctctcaggc tgcagccatc aatgtcagca ccagccatga agtgcctct	2220
gctgtccctg tgggtcacca ggtgagccgg gcatccaaca gcatcacggg gtctggccg	2280
cagcccagcc agaccaatgg gaacatcctg gactatcagc tccgctacta tgaccaggca	2340
gaagacgaat cccactcctt caccctgacc agcgagacca aactgccac cgtgacacag	2400
ctgagccctg gccacatcta tggtttccag gtgcggggccc ggactgctgc cggccacggc	2460
ccctacgggg gcaaagtcta tttccagaca ctctctcaag gggagctgtc ttcccagctt	2520
ccggaaagac tctccttggg gatcggctcc atcctggggg ctttggcctt cctcctgctg	2580
gcagccatca ccgtgctggc ggtcgtcttc cagcggaagc ggcgtgggac tggctacacg	2640
gagcagctgc agcaatacag cagcccagga ctcggggtga agtattacat cgacccctcc	2700
acctacgagg acccctgtca ggccatccga gaacttgccc gggaagtcga tcttgcttat	2760
atcaagattg aggaggtcat tgggacaggc tcttttgag aagtgcgcca gggccgctg	2820
cagccacggg gacggaggga gcagactgtg gccatccagg ccctgtgggc cggggcgcc	2880
gaaagcctgc agatgacctt cctgggcccgg gccgcagtgc tgggtcagtt ccagcacc	2940
aacatcctgc ggctggaggg cgtggtcacc aagagccgac ccctcatggg gctgacggag	3000
ttcatggagc ttggccccct ggacagcttc ctccaggcagc gggagggcca gttcagcagc	3060
ctgcagctgg tggccatgca gcggggagtg gctgctgcca tgcagtacct gtccagcttt	3120
gccttcgtcc atcgtctgct gtctgccac agcgtgctgg tgaatagcca cttggtgtgc	3180
aagggtggccc gtcttgccca cagtcctcag ggcccaagtt gtttgcttcg ctgggcagcc	3240
ccagaggtea ttgcacatgg aaagcataca acatccagtg atgtctggag ctttgggata	3300
ctcatgtggg aagtgatgag ttatggagaa cggccttact gggacatgag tgagcaggag	3360
gtactaaatg caatagagca ggagttccgg ctgccccgc ctcaggctg tcctcctgga	3420
ttacatctac ttatgttgga cacttggcag aaggaccgtg cccggcgcc tcattttgac	3480
cagctgggtg ctgcatttga caagatgatc cgcaagccag ataccctgca ggctggcg	3540
gacccagggg aaaggccttc ccaggccctt ctgaccctg tggccctgga ctttcttgt	3600
ctggactcac cccaggcctg gctttcagcc attggactgg agtgctacca ggacaacttc	3660

tccaagtttg	gcctctgtac	cttcagtgat	gtggctcagc	tcagcctaga	agacctgcct	3720
gccctgggca	tcacctggc	tggccaccag	aagaagctgc	tgcaccacat	ccagctcctt	3780
cagcaacacc	tgaggcagca	gggctcagtg	gaggtctgag	aatgacgata	cccgtgactc	3840
agccctggac	actggtccga	gaagggacat	gtgggacgtg	agccgggctc	caacagcctc	3900
tgtgagagat	gccccacacc	aaacccaacc	ctcccgatgg	ctgcattccc	tggtcctccg	3960
cctctccacc	agccccctcc	tcattaaagg	gaaagaaggg	aatttgcaaa		4010

<210> 360
 <211> 1849
 <212> DNA
 <213> Homo sapiens

<400> 360	
acttagaggc	gcctggtcgg gaagggcctg gtcagctgcg tccggcggag gcagctgctg 60
accagctgt	ggactgtgcc gggggcgggg gacggagggg caggagccct gggctccccg 120
tggcgggggc	tgtatcatgg accacctcgg ggcgtccctc tggccccagg tcggctccct 180
ttgtctcctg	ctcgtctggg ccgcctgggc gccccgcct aacctcccg accccaagtt 240
cgagagcaaa	gcggccttgc tggcggcccc gggggccgaa gagcttctgt gcttcaccga 300
gcggttgag	gacttggtgt gtttctggga ggaagcggcg agcgtgggg tgggccggg 360
caactacagc	ttctcctacc agctcgagga tgagccatgg aagctgtgtc gcctgcacca 420
ggctcccacg	gctcgtggtg cgggtgcgctt ctggtgttcg ctgcctacag ccgacacgtc 480
gagcttcgtg	cccctagagt tgcgcgtcac agcagcctcc ggcgtccgc gatatcacg 540
tgtcatccac	atcaatgaag tagtgctcct agacgcccc gtggggctgg tggcgcgggt 600
ggctgacgag	agcggccacg tagtggtgcg ctggctcccg ccgcctgaga caccatgac 660
gtctcacatc	cgctacgagg tggacgtctc ggccggcaac ggcgcaggga gcgtacagag 720
ggtggagatc	ctggagggcc gcaccgagtg tgtgctgagc aacctgcggg gccggacgcg 780
ctacaccttc	gccgtccgcg cgcgtatggc tgagccgagc ttcggcggct tctggagcgc 840
ctggtcggag	cctgtgtcgc tgctgacgcc tagcgacctg gacccccca tcctgacgct 900
ctccctcatc	ctcgtggtca tcctggtgct gctgaccgtg ctgcgcgtgc tctcccaccg 960
ccgggctctg	aagcagaaga tctggcctgg catcccagac ccagagagcg agtttgaagg 1020
cctcttcacc	accacaagg gtaacttcca gctgtggctg taccagaatg atggctgcct 1080
gtggtggagc	ccctgcaccc ccttcacgga ggaccacct gcttccctgg aagtcctctc 1140
agagcgctgc	tgggggacga tgcaggcagt ggagccgggg acagatgatg agggccccct 1200
gctggagcca	gtgggcagtg agcatgcccc ggatacctat ctggtgctgg acaaatgggt 1260

gctgccccgg aaccgcccc gtgaggacct ccagggcct ggtggcagtg tggacatagt 1320
 ggccatggat gaaggctcag aagcatcctc ctgctcatct gctttggcct cgaagcccag 1380
 cccagaggga gcctctgctg ccagctttga gtacactatc ctggacccca gctcccagct 1440
 cttgcgtcca tggacactgt gccctgagct gccccctacc ccaccccacc taaagtacct 1500
 gtaccttggtg gtatctgact ctggcatctc aactgactac agctcagggg actcccaggg 1560
 agcccaaggg ggcttatccg atggccccta ctccaaccct tatgagaaca gccttatccc 1620
 agccgctgag cctctgcccc ccagctatgt ggcttgctct taggacacca ggctgcagat 1680
 gatcagggat ccaatatgac tcagagaacc agtgcagact caagacttat ggaacaggga 1740
 tggcgaggcc tctctcagga gcaggggcat tgctgatttt gtctgccc aa tccatcctgc 1800
 tcaggaaacc acaaccttgc agtattttta aatatgtata gtttttttg 1849

<210> 361
 <211> 1326
 <212> DNA
 <213> Homo sapiens

<400> 361
 atgtccccc tctcaggagc ctgcccagc tggagggctg cacccaaagc ctcagacctg 60
 ctggggggccc gggggcccagg gggaaccttc cagggccgag atcttcgagg cggggcccat 120
 gcctcctctt cttccttgaa ccccatgcc ccatcgagc tgcagctctc aacgggtggat 180
 gcccacgccc ggacccctgt gctgcagggt caccctctgg agagcccagc catgatcagc 240
 ctcacaccac ccaccaccgc cactgggggtc ttctcctca agggccggcc tggcctccca 300
 cctgggatca acgtggccag cctggaatgg gtgtccaggg agccggcact gctctgcacc 360
 ttcccaaata ccagtgcacc caggaaggac agcacccttt cggtgtgcc ccagagctcc 420
 taccactgc tggcaaatgg tgtctgcaag tggcccggat gtgagaagg cttcgaagag 480
 ccagaggact tcctcaagca ctgccaggcg gaccatcttc tggatgagaa gggcagggca 540
 caatgtctcc tccagagaga gatggtacag tctctggagc agcagctggt gctggagaag 600
 gagaagctga gtgccatgca ggcccacctg gctgggaaaa tggcactgac caaggcttca 660
 tctgtggcat catccgacaa gggctcctgc tgcctcgtag ctgctggcag ccaaggccct 720
 gtcgtcccag cctggtctgg ccccgggag gcccctgaca gcctgtttgc tgtccggagg 780
 cacctgtggg gtagccatgg aaacagcaca ttcccagagt tcctccacaa catggactac 840
 ttcaagtctc acaacatgcg acccccttcc acctacgcca cgctcatccg ctggggccatc 900
 ctggaggctc cagagaagca gcggacactc aatgagatct accactggtt cacacgcatg 960
 tttgccttct tcagaaacca tcctgccacc tggaagggtga gctcctctga ggtggcgggtg 1020

actgggatgg cctcaagtgc catcgagct caaagtgggc aggcctgggt ctgggctcat	1080
aggcacattg gggaggaacg ggatgtgggt tgttgggtgg ggctgctggc ctcagaggtt	1140
gacgcccacc tgctccctgt ccccgccctt ccacagaacg ccatccgcca caacctgagt	1200
ctgcacaagt gctttgtgcg ggtggagagc gagaaggggg ctgtgtggac cgtggatgag	1260
ctggagttcc gcaagaaacg gagccagagg cccagcaggt gttccaaccc tacacctggc	1320
ccctga	1326

<210> 362
 <211> 1498
 <212> DNA
 <213> Homo sapiens

<400> 362	
gcaaaggcca aggccagcca ggacaccccc tgggatcaca ctgagcttgc cacatcccca	60
aggcggccga accctccgca accaccagcc cagggttaatc cccagaggct ccatggagtt	120
ccctggcctg gggcccttg ggacctcaga gcccctcccc cagtttgtgg atcctgctct	180
ggtgtcctcc acaccagaat caggggtttt cttccctctt gggcctgagg gcttggatgc	240
agcagcttcc tccactgccc cgagcacagc caccgctgca gctgcggcac tggcctacta	300
cagggacgct gaggcctaca gacactcccc agtctttcag gtgtacccat tgetcaactg	360
tatggagggg atcccagggg gctcaccata tgccggctgg gcctacggca agacggggct	420
ctaccctgcc tcaactgtgt gtcccacccg cgaggactct cctccccagg ccgtggaaga	480
tctggatgga aaaggcagca ccagcttctt ggagactttg aagacagagc ggctgagccc	540
agacctcctg accctgggac ctgcactgcc ttcatactc cctgtcccca atagtgttta	600
tgggggccct gacttttcca gtaccttctt ttctcccacc gggagcccc tcaattcagc	660
agcctattcc tctccaagc ttcgtggaac tctccccctg cctccctgtg aggccaggga	720
gtgtgtgaac tgccggagcaa cagccactcc actgtggcgg agggacagga caggccacta	780
cctatgcaac gcctgcggcc tctatcacia gatgaatggg cagaacaggc ccctcatccg	840
gcccagaag cgcctgattg tcagtaaagc ggcaggtact cagtgcacca actgccagac	900
gaccaccagc aactgtggc ggagaaatgc cagtggggat cccgtgtgca atgcctgcgg	960
cctctactac aagctacacc aggtgaaccg gccactgacc atgcggaagg atggtattca	1020
gactcgaaac cgcaaggcat ctggaaaagg gaaaaagaaa cggggctcca gtctgggagg	1080
cacaggagca gccgaaggac cagctgggtg ctttatgggt gtggctgggg gcagcggtag	1140
cgggaattgt ggggaggtgg cttcaggcct gacactgggc ccccaggta ctgcccattc	1200
ctaccaaggc ctgggcccctg tgggtgctgtc agggcctgtt agccacctca tgcctttccc	1260

tggaccacctta ctggggtcac ccacggggtc cttccccaca' ggcccatgc cccccaccac 1320
 cagcactact gtggtgggtc cgctcagctc atgagggcac agagcatggc ctccagagga 1380
 ggggtgggtgt ctttctctc ttgtagccag aattctggac aaccaagtc tctgggcccc 1440
 aggcaccccc tggcttgaac cttcaaagct tttgtaaaat aaaaccacca aagtcctg 1498

<210> 363
 <211> 3334
 <212> DNA
 <213> Homo sapiens

<400> 363
 attcctgcct gggaggttgt ggaagaagga agatggccag agcttttgtt ccactgcaag 60
 ccctctggct tctggagtgg gtgctgctgc tcttgggacc ttgtgctgcc cctccagcct 120
 gggccttgaa cctggaccca gtgcagctca ctttctatgc agggcccaat ggcagccagt 180
 ttggattttc actggacttc cacaaggaca gccatgggag agtggccatc gtggtgggcg 240
 ccccgcgagc cctgggcccc agccaggagg agacgggagg cgtgttcctg tgccccctgga 300
 gggccgaggg cggccagtgc ccctcgctgc tctttgacct ccgtgatgag acccgaaatg 360
 taggctccca aactttacaa accttcaagg cccgccagg actgggggag tcggtcgtca 420
 gctggagcga cgtcatttgt gcctgcgccc cctggcagca ctggaacgtc ctagaaaaga 480
 ctgaggaggc tgagaagacg cccgtaggta gctgcttttt ggctcagcca gagagcggcc 540
 gccgcgcccga gtactcccc tgctcgggga acacctgag ccgcatttac gtggaaaatg 600
 atttttagctg ggacaagcgt tactgtgaag cgggcttcag ctccgtggtc actcaggccg 660
 gagagctggg gcttgggggt cctggcgggt attatttctt aggtctcctg gcccaggctc 720
 cagttgcgga tatttttctg agttaccgcc caggcatcct tttgtggcac gtgtcctccc 780
 agagcctctc ctttgactcc agcaaccag agtacttcga cggctactgg gggactcgg 840
 tggccgtggg cgagttcgac ggggatctca aactacaga atatgtcgtc ggtgccccca 900
 cttggagctg gaccctggga gcggtggaaa ttttggattc ctactaccag aggctgcatc 960
 ggctgcgctc agagcagatg gcgtcgtatt ttgggcattc agtggctgtc actgacgtca 1020
 acggggatgg gaggcagat ctgctgggtg gcgtccact gtatatggag agccgggcag 1080
 accgaaaact ggccgaagtg gggcgttgtt atttgttctt gcagccgcga ggcccccacg 1140
 cgctgggtgc cccagcctc ctgctgactg gcacacagct ctatgggcga ttcggctctg 1200
 ccatcgacc cctgggagac ctgaccggg atggctacaa tgacattgca gtggctgccc 1260
 cctacggggg tcccagtggc cggggccaag tgctgggtgt cctgggtcag agtgaggggc 1320
 tgaggtcacg tccctcccag gtctgggaca gccccttccc cacaggctct gcctttggct 1380

tctcccttcg aggtgccgta gacatcgatg acaacggata cccagacctg atcgtgggag	1440
cttacggggc caaccaggtg gctgtgtaca gagctcagcc agtgggtgaag gcctctgtcc	1500
agctactggt gcaagattca ctgaatcctg ctgtgaagag ctgtgtccta cctcagacca	1560
agacacccgt gagctgcttc aacatccaga tgtgtgttgg agccactggg cacaacattc	1620
ctcagaagct atccctaaat gccgagctgc agctggaccg gcagaagccc cgccagggcc	1680
ggcgggtgct gctgctgggc tctcaacagg caggcaccac cctgaacctg gatctgggcg	1740
gaaagcacag ccccatctgc cacaccacca tggccttcct tcgagatgag gcagacttcc	1800
gggacaagct gagccccatt gtgctcagcc tcaatgtgtc cctaccgccc acggaggctg	1860
gaatggcccc tgctgtcgtg ctgcatggag acacccatgt gcaggagcag acacgaatcg	1920
tcctggactc tggggaagat gacgtatgtg tgccccagct tcagctcact gccagcgtga	1980
cgggctcccc gctcctagtt ggggcagata atgtcctgga gctgcagatg gacgcagcca	2040
acgagggcga gggggcctat gaagcagagc tggccgtgca cctgccccag ggcgcccact	2100
acatgcgggc cctaagcaat gtcgagggtt ttgagagact catctgtaat cagaagaagg	2160
agaatgagac cagggtggtg ctgtgtgagc tgggcaaccc catgaagaag aacgcccaga	2220
taggaatcgc gatgttggtg agcgtgggga atctggaaga ggctggggag tctgtgtcct	2280
tccagctgca gatacggagc aagaacagcc agaatccaaa cagcaagatt gtgctgctgg	2340
acgtgccggt ccgggcagag gcccaagtgg agctgcgagg gaactccttt ccagcctccc	2400
tggtggtggc agcagaagaa ggtgagaggg agcagaacag cttggacagc tggggaccca	2460
aagtggagca cacctatgag ctccacaaca atggccctgg gactgtgaat ggtcttcacc	2520
tcagcatcca ccttcggga cagtcccagc cctccgacct gctctacatc ctggatatac	2580
agccccaggg gggccttcag tgcttccac agcctcctgt caaccctctc aagggtggact	2640
gggggctgcc catccccagc ccctcccca ttcaccgggc ccatcacaag cgggatcgca	2700
gacagatctt cctgccagag ccgagcagc cctcgaggct tcaggatcca gttctcgtaa	2760
gctgcgactc ggcgccctgt actgtggtgc agtgtgacct gcaggagatg gcgcgcgggc	2820
agcgggccat ggtcacggtg ctggccttcc tgtggetgcc cagcctctac cagaggcctc	2880
tggatcagtt tgtgctgcag tcgcacgcat ggttcaacgt gtctccctc ccctatgcgg	2940
tgccccgct cagcctgccc cgagggaag ctcaggtgtg gacacagctg ctccgggcct	3000
tggaggagag ggccattcca atctgggtggg tgctgggtggg tgtgctgggt ggctgctgc	3060
tgctcaccat cctggtcctg gccatgtgga aggtcggctt cttcaagcgg aaccggccac	3120
ccctggaaga agatgatgaa gagggggagt gatggtgcag cctacactat tctagcagga	3180

gggttgggcg tgctacctgc accgccccctt ctccaacaag ttgcctccaa gctttggggtt 3240
 ggagctgttc cattgggtcc tcttggtgtc gtttccctcc caacagagct gggctacccc 3300
 ccctcctgct gcctaataaa gagactgagc cctg 3334

<210> 364
 <211> 738
 <212> DNA
 <213> Homo sapiens

<400> 364
 gtatctgtgg taaacccagt gacacggggg agatgacata caaaaagggc aggacctgag 60
 aaagattaag ctgcaggctc cctgcccata aaacaggggtg tgaaaggcat ctcagcggct 120
 gccccaccat ggctacctgg gccctcctgc tccttgacgc catgctcctg ggcaaccacg 180
 gtctggtctt ctctcgtctg agccctgagt actacgacct ggcaagagcc cacctgcgtg 240
 atgaggagaa atcctgcccc tgcttgcccc aggagggccc ccagggtgac ctggtgacca 300
 aaacacagga gctggggcgt gactacagga cctgtctgac gatagtccaa aaactgaaga 360
 agatggtgga taagcccacc cagagaagtg tttccaatgc tgcgaccgg gtgtgtagga 420
 cggggagggtc acgatggcgc gacgtctgca gaaatttcat gaggaggat cagtctagag 480
 ttaccacagg cctcgtggcc ggagaaactg ccagcagat ctgtgaggac ctcagggtgt 540
 gtataccttc tacaggctcc ctctgagccc tctcaccttg tcctgtggaa gaagcacagg 600
 ctctgtcct cagatccccg gaacctcagc aacctctgcc ggctcctcgc ttcctcgatc 660
 cagaatccac tctccagtct ccctcccctg actccctctg ctgtcctccc ctctcacgag 720
 aataaagtgt caagcaag 738

<210> 365
 <211> 878
 <212> DNA
 <213> Homo sapiens

<400> 365
 cagattttca gggtgattga tgtgggacag cagccacaat gaggaactcc tatagatttc 60
 tggcctcctc tctctcagtt gtcgtttctc tcctgctaata tcctgaagat gtctgtgaaa 120
 aaattatttg aggaaatgaa gtaactcctc attcaagacc ctacatgggtc ctacttagtc 180
 ttgacagaaa aaccatctgt gctggggctt tgattgcaaa agactgggtg ttgactgcag 240
 ctactgttaa cttgaacaaa aggtcccagg tcattcttgg ggctcactca ataaccaggg 300
 aagagccaac aaaacagata atgcttgta agaaagagtt tccctatcca tgctatgacc 360
 cagccacacg cgaagggtgac cttaaacttt tacagctgac ggaaaaagca aaaattaaca 420
 aatatgtgac tatccttcat ctacctaaaa agggggatga tgtgaaacca ggaacctgt 480

gccaaagtgc aggggtggggg aggactcaca atagtgcac ttggtccgat actctgagag 540
 aagtcaatat caccatcata gacagaaaag tctgcaatga tcgaaatcac tataatttta 600
 accctgtgat tggaatgaat atggtttgtg ctggaagcct ccgaggtgga agagactcgt 660
 gcaatggaga ttctggaagc cctttgttgt gcgagggtgt tttccgaggg gtcacttcct 720
 ttggccttga aaataaatgc ggagaccctc gtgggcctgg tgtctatatt cttctctcaa 780
 agaaacacct caactggata attatgacta tcaaggagc agtttaaata accgtttcct 840
 ttcatttact gtggcttctt aatcttttca caaataaa 878

<210> 366
 <211> 576
 <212> DNA
 <213> Homo sapiens

<400> 366
 actctttctgg tccccacaga ctcagagaga acccaccatg gtgctgtctc ctgccgacaa 60
 gaccaacgtc aaggccgcct ggggtaaggt cggcgcgcac gctggcgagt atgggtgcgga 120
 ggccctggag aggatgttcc tgtccttccc caccaccaag acctacttcc cgcacttcga 180
 cctgagccac ggctctgccc aggttaaggg ccacggcaag aagggtggccg acgcgctgac 240
 caacgcctgt gcgacgtgg acgacatgcc caacgcgctg tccgcccctga gcgacctgca 300
 cgcgcacaag cttcggttgg acccgtcaa cttcaagctc ctaagccact gcctgctggt 360
 gaccctggcc gccacctcc ccgcccagtt caccctgcg gtgcacgcct ccctggacaa 420
 gttcctggct tctgtgagca ccgtgctgac ctccaaatac cgtaagctg gagcctcggt 480
 ggccatgctt cttgcccctt gggcctcccc ccagcccctc ctccccttcc tgcacccgta 540
 ccccggtggt ctttgaataa agtctgagtg ggcggc 576

<210> 367
 <211> 589
 <212> DNA
 <213> Homo sapiens

<400> 367
 accaaggcca gtcctgagca ggcccaactc cagtgcagct gccaccctg ccgcatgtc 60
 tctgaccaag actgagagga ccatcattgt gtccatgtgg gccaaatct ccacgcaggc 120
 cgacaccatc ggcaccgaga ctctggagag gctcttctc agccaccgc agaccaagac 180
 ctacttccc cacttcgacc tgcacccggg gtccgcgcag ttgcgcgcgc acggctccaa 240
 ggtggtggcc gccgtggcg acgcggtgaa gagcatcgac gacatcggc gcgccctgtc 300
 caagctgagc gagctgcacg cctacatcct gcgcgtggac ccggtcaact tcaagctcct 360

gtcccaactgc ctgctgggtca cccctggccgc gcgcttcccc gccgacttca cggccgaggc 420
 ccacgccgcc tgggacaagt tcctatcggt cgtatcctct gtcttgaccg agaagtaccg 480
 ctgagcgccg cctccgggac ccccaggaca ggctgcggcc cctcccccggt cctggaggtt 540
 ccccagcccc acttaccgcg taatgcgcca ataaaccaat gaacgaagc 589

<210> 368
 <211> 626
 <212> DNA
 <213> Homo sapiens

<400> 368
 acatttgctt ctgacacaac tgtgttcact agcaacctca aacagacacc atggtgcatc 60
 tgactcctga ggagaagtct gccgttactg ccctgtgggg caaggtgaac gtggatgaag 120
 ttggtggtga ggccctgggc aggctgctgg tggctctacc ttggaccag aggttctttg 180
 agtcctttgg ggatctgtcc actcctgatg ctgttatggg caaccctaag gtgaaggctc 240
 atggcaagaa agtgctcggt gccttttagtg atggcctggc tcacctggac aacctcaagg 300
 gcacctttgc cacactgagt gagctgcact gtgacaagct gcacgtggat cctgagaact 360
 tcaggctcct gggcaacgtg ctggtctgtg tgctggccca tcactttggc aaagaattca 420
 cccaccagt gcaggctgcc tatcagaaag tgggtggctgg tgtggctaata gccctggccc 480
 acaagtatca ctaagctcgc tttcttgctg tccaatttct attaaagggt cctttgttcc 540
 ctaagtccaa ctactaaact gggggatatt atgaagggcc ttgagcatct ggattctgcc 600
 taataaaaaa cattttatttt cattgc 626

<210> 369
 <211> 624
 <212> DNA
 <213> Homo sapiens

<400> 369
 acactttctt ctgacataac agtgttcact agcaacctca aacagacacc atggtgcatc 60
 tgactcctga ggagaagact gctgtcaatg ccctgtgggg caaagtgaac gtggatgcag 120
 ttggtggtga ggccctgggc agattactgg tggctctacc ttggaccag aggttctttg 180
 agtcctttgg ggatctgtcc tctcctgatg ctgttatggg caaccctaag gtgaaggctc 240
 atggcaagaa ggtgctaggt gccttttagtg atggcctggc tcacctggac aacctcaagg 300
 gcactttttc tcagctgagt gagctgcact gtgacaagct gcacgtggat cctgagaact 360
 tcaggctcct gggcaatgtg ctggtgtgtg tgctggcccg caactttggc aaggaattca 420
 cccacaaaat gcaggctgcc tatcagaagg tgggtggctgg tgtggctaata gccctggctc 480
 acaagtacca ttgagatcct ggactgtttc ctgataacca taagaagacc ctatttcctc 540

agattctatt ttctgaactt gggaacacaa tgcctacttc aagggtatgg cttctgccta 600
ataaagaatg ttcagctcaa cttc 624

<210> 370
<211> 816
<212> DNA
<213> Homo sapiens

<400> 370
caacaaaaaa gagcctcagg atccagcaca cattatcaca aacttagtgt ccatccatca 60
ctgctgaccc tctccggacc tgactccacc cctgagggac acaggtcagc cttgaccaat 120
gacttttaag taccatggag aacagggggc cagaacttcg gcagtaaaga ataaaaggcc 180
agacagagag gcagcagcac atatctgctt ccgacacagc tgcaatcact agcaagctct 240
caggcctggc atcatggtgc attttactgc tgaggagaag gctgccgtca ctagcctgtg 300
gagcaagatg aatgtggaag aggctggagg tgaagccttg ggcagactcc tcgttgttta 360
cccctggacc cagagatttt ttgacagctt tggaaacctg tcgtctccct ctgccatcct 420
gggcaacccc aagggtcaagg cccatggcaa gaagggtgctg acttcctttg gagatgctat 480
taaaaacatg gacaacctca agcccgcctt tgctaagctg agtgagctgc actgtgacaa 540
gctgcatgtg gatcctgaga acttcaagct cctgggtaac gtgatgggtga ttattctggc 600
tactcacttt ggcaaggagt tcacccctga agtgcaggct gcctggcaga agctgggtgc 660
tgctgtcgcc attgccctgg ccataagta ccaactgagtt ctcttcaggt ttgcaggtgt 720
tcctgtgacc ctgacaccct ccttctgcac atggggactg ggcttggcct tgagagaaag 780
ccttctgttt aataaagtac attttcttca gtaatc 816

<210> 371
<211> 584
<212> DNA
<213> Homo sapiens

<400> 371
acactcgctt ctggaacgtc tgaggttatc aataagctcc tagtccagac gccatggggtc 60
atttcacaga ggaggacaag gctactatca caagcctgtg gggcaagggtg aatgtggaag 120
atgctggagg agaaacctg ggaaggctcc tggttgtcta cccatggacc cagaggttct 180
ttgacagctt tggcaacctg tcctctgcct ctgccatcat gggcaacccc aaagtcaagg 240
cacatggcaa gaagggtgctg acttccttgg gagatgccac aaagcacctg gatgatctca 300
agggcacctt tgcccagctg agtgaactgc actgtgacaa gctgcatgtg gatcctgaga 360
acttcaagct cctgggaaat gtgctgggtga ccgttttggc aatccatttc ggcaaagaat 420

tcacccctga ggtgcaggct tcctggcaga agatggtgac tgcagtggcc agtgccttgt 480
 cctccagata ccaactgagct cactgcccac gattcagagc tttcaaggat aggctttatt 540
 ctgcaagcaa tacaaataat aaatctattc tgctgagaga tcac 584

<210> 372
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 372
 attgagcgcg cgcgggtcccg ggatctccga cgaggccctg gacccccggg cggcgaagct 60
 gcggcgcggc gccccctgga ggccgcggga cccctggccg gtccgcgcag gcgcagcggg 120
 gtcgcagggc gcggcgggtt ccagcgcggg gatggcgctg tccgcggagg accgggcgct 180
 ggtgcgcgcc ctgtggaaga agctgggcag caacgtcggc gtctacacga cagaggccct 240
 ggaaaggacc ttcttggtt tccccgccac gaagacctac ttctcccacc tggacctgag 300
 cccccggtcc tcacaagtca gagcccacgg ccagaagggtg gcggacgcgc tgagcctcgc 360
 cgtggagcgc ctggacgacc taccacacgc gctgtccgcg ctgagccacc tgcaacgcgtg 420
 ccagctgcga gtggacccgg ccagcttcca gctcctgggc cactgcctgc tggtaaccct 480
 cgcgccggcacc taccgccggag acttcagccc cgcgctgcag gcgtcgctgg acaagttcct 540
 gagccacgtt atctcggcgc tggtttccga gtaccgctga actgtgggtg ggtggccgcg 600
 ggatccccag gcgaccttcc ccgtgtttga gtaaagcctc tcccaggagc a 651

<210> 373
 <211> 1157
 <212> DNA
 <213> Homo sapiens

<400> 373
 gctcacagtc atcaattata gacccacaa catgcgcctt gaagacagaa tgttccatat 60
 cagagctgtg atcttgagag ccctctcctt ggctttcctg ctgagtctcc gaggagctgg 120
 ggccatcaag gcggaccatg tgtcaactta tgccgcgttt gtacagacgc atagaccaac 180
 aggggagttt atgtttgaat ttgatgaaga tgagatgttc tatgtggatc tggacaagaa 240
 ggagaccgtc tggcatctgg aggagtttgg ccaagccttt tcctttgagg ctcagggcgg 300
 gctggctaac attgctatat tgaacaacaa cttgaatacc ttgatccagc gttccaacca 360
 cactcaggcc accaacgatc cccctgaggt gaccgtgttt cccaaggagc ctgtggagct 420
 gggccagccc aacacctca tctgccacat tgacaagttc ttcccaccag tgctcaacgt 480
 cacgtggctg tgcaacgggg agctggtcac tgaggggtgc gctgagagcc tcttcctgcc 540
 cagaacagat tacagcttcc acaagttcca ttacctgacc tttgtgccct cagcagagga 600

cttctatgac tgcaggggtgg agcactgggg cttggaccag ccgctcctca agcactggga 660
 ggcccaagag ccaatccaga tgcctgagac aacggagact gtgctctgtg ccctgggcct 720
 ggtgctgggc ctagtcggca tcatcgtggg caccgtcctc atcataaagt ctctgcgttc 780
 tggccatgac ccccgggccc aggggaccct gtgaaatact gtaaagggtga caaaatatct 840
 gaacagaaga ggacttagga gagatctgaa ctccagctgc cctacaaact ccatctcagc 900
 ttttcttctc acttcatgtg aaaactactc cagtggctga ctgaattgct gacccttcaa 960
 gctctgtcct tatccattac ctcaaagcag tcattcctta gtaaagtttc caacaaatag 1020
 aaattaatga cactttggta gcactaatat ggagattatc ctttcattga gccttttatc 1080
 ctctgttctc ctttgaagaa cccctcactg tcaccttccc gagaataccc taagaccaat 1140
 aaataacttca gtatttc 1157

<210> 374
 <211> 1096
 <212> DNA
 <213> Homo sapiens

<400> 374
 atgatacctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt gatgagcccc 60
 tgtggagggtg aagacattgt ggctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120
 ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180
 gacctggaga ggaaggagac tgcctggcgg tggcctgagt tcagcaaatt tggagggttt 240
 gaccgcagg gtgcactgag aaacatggct gtggcaaac acaacttgaa catcatgatt 300
 aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt gttttccaag 360
 tctcccgtga cactgggtca gcccaacacc ctcatctgtc ttgtggacaa catctttcct 420
 cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480
 accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct caccttcctc 540
 ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga ccagcctctt 600
 ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660
 tgtgccctgg gggtgtctgt gggcctcatg ggcattgtgg tgggcactgt cttcatcatc 720
 caaggcctgc gttcagttgg tgcttccaga caccaagggc catttgtgaat cccatcctgg 780
 aagggaaggt gcatcgccat ctacaggagc agaagaatgg acttgctaaa tgacctagca 840
 ctattctctg gcccgattta tcatatccct tttctcctcc aaatatttct cctctcacct 900
 tttctctggg acttaagctg ctatatcccc tcagagctca caaatgcctt tacattcttt 960
 ccctgacctc ctgatttttt ttttcttttc tcaaagtta cctacaatac atgcctgggg 1020

taagccaccc ggctacctaa ttcttcagta acctccatct aaaatctcca aggaagcaat 1080
 aaattccttt tatgag 1096

<210> 375
 <211> 1182
 <212> DNA
 <213> Homo sapiens

<400> 375
 tagttctccc tgagtgaac ttgcctgctt ctctggcccc tggctctgtc ctgttctcca 60
 gcatgggtgtg tctgaagctc cctggaggct cctgcatgac agcgctgaca gtgacactga 120
 tgggtgtgag ctccccactg gctttggctg gggacacccg accacgtttc ttgtggcagc 180
 ttaagtttga atgtcatttc ttcaatggga cggagcgggt gcggttgctg gaaagatgca 240
 tctataacca agaggagtcc gtgcgcttcg acagcgacgt gggggagtag cgggcgggtga 300
 cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacctc ctggagcaga 360
 ggccggccgc ggtggacacc tactgcagac acaactacgg ggttggtgag agcttcacag 420
 tgcagcggcg agttgagcct aagggtgactg tgtatccttc aaagaccag cccctgcagc 480
 accacaacct cctggtctgc tctgtgagtg gtttctatcc aggcagcatt gaagtcaggt 540
 gggtccggaa cggccaggaa gagaaggctg ggggtggtgtc cacaggcctg atccagaatg 600
 gagattggac cttccagacc ctggtgatgc tggaaacagt tcctcggagt ggagagggtt 660
 acacctgcca agtggagcac ccaagtgtga cgagccctct cacagtggaa tggagagcac 720
 ggtctgaatc tgcacagagc aagatgctga gtggagtcgg gggcttcgtg ctgggcctgc 780
 tcttccttgg ggccgggctg ttcacttact tcaggaatca gaaaggacac tctggacttc 840
 agccaacagg attcctgagc tgaaatgcag atgaccacat tcaaggaaga accttctgtc 900
 ccagctttgc agaatgaaaa gctttcctgc ttggcagtta ttcttcaca agagagggct 960
 ttctcaggac ctggttgcta ctggttcggc aactgcagaa aatgtcctcc cttgtggctt 1020
 cctcagctcc tgcccttggc ctgaagtcac agcattgatg acagcgctc atcttcaact 1080
 ttgtgtctcc cctttgccta aaccgtatgg cctcccgctg atctgtactc accctgtacg 1140
 acaaacacat tacattatta aatgtttctc aaagatggag tt 1182

<210> 376
 <211> 2610
 <212> DNA
 <213> Homo sapiens

<400> 376
 ggactgttaa ctgtttctgg caaacatgaa gtcaggcctc tggatattct ttctcttctg 60

cttgcgcat	aaagttttaa	caggagaaat	caatggttct	gccattatg	agatgtttat	120
atttcacaac	ggaggtgtac	aaattttatg	caaatactct	gacattgtcc	agcaatttaa	180
aatgcagttg	ctgaaagggg	ggcaaatact	ctgcgatctc	actaagacaa	aaggaagtgg	240
aaacacagt	tccattaaga	gtctgaaatt	ctgccattct	cagttatcca	acaacagtgt	300
ctcttttttt	ctatacaact	tggaccattc	tcatgccaac	tattacttct	gcaacctatc	360
aatttttgat	cctcctcctt	ttaaagtaac	tcttacagga	ggatatttgc	atattttatga	420
atcacaactt	tgttgccagc	tgaagttctg	gttaccata	ggatgtgcag	cctttgttgt	480
agtctgcatt	ttgggatgca	tacttatttg	ttggcttaca	aaaaagaagt	attcatccag	540
tgtgcacgac	cctaacggtg	aatacatgtt	catgagagca	gtgaacacag	ccaaaaaatc	600
tagactcaca	gatgtgaccc	tataatatgg	aactctggca	cccaggcatg	aagcacgttg	660
gccagttttc	ctcaacttga	agtgcaagat	tctcttattt	ccgggaccac	ggagagtctg	720
acttaactac	atacatcttc	tgctggtgtt	ttgttcaatc	tggaagaatg	actgtatcag	780
tcaatgggga	ttttaacaga	ctgccttggc	actgccgagt	cctctcaaaa	caaacaccct	840
cttgcaacca	gctttggaga	aagcccagct	cctgtgtgct	cactgggagt	ggaatccctg	900
tctccacatc	tgctcctagc	agtgcatcag	ccagtaaaac	aaacacattt	acaagaaaaa	960
tgttttaaag	atgccagggg	tactgaatct	gcaaagcaaa	tgagcagcca	aggaccagca	1020
tctgtccgca	tttcactatc	atactacctc	ttctttctgt	agggatgaga	attcctcttt	1080
taatcagtca	aggagatg	ttcaaagctg	gagctatctt	atttctgaga	tgttgatgtg	1140
aactgtacat	tagtacatac	tcagtactct	ccttcaattg	ctgaacccca	gttgaccatt	1200
ttaccaagac	tttagatgct	ttcttgtgcc	ctcaattttc	tttttaaaaa	tacttctaca	1260
tgactgcttg	acagcccaac	agccactctc	aatagagagc	tatgtcttac	attctttcct	1320
ctgctgctca	atagttttat	atatctatgc	atacatatat	acacacatat	gtatataaaa	1380
ttcataatga	atatatttgc	ctatattctc	cctacaagaa	tatttttgct	ccagaaagac	1440
atgttctttt	ctcaaattca	gttaaaatgg	tttactttgt	tcaagttagt	ggtaggaaac	1500
attgcccggg	attgaaagca	aattttattt	attatcctat	tttctaccat	tatctatgtt	1560
ttcatgggtg	tattaattac	aagtttagtt	ctttttgtag	atcatattaa	aattgcaaac	1620
aaaatcatct	ttaatgggcc	agcattctca	tggggtagag	cagaatattc	atttagcctg	1680
aaagctgcag	ttactatagg	ttgctgtcag	actataccca	tgggtgcctct	gggcttgaca	1740
gggtcaaaatg	gtccccatca	gcctggagca	gccctccaga	cctgggtgga	attccagggg	1800
tgagagactc	ccctgagcca	gaggccacta	gggtattctt	ctcccagagg	ctgaagtcac	1860
cctgggaatc	acagtgggtc	acctgcattc	ataattccag	gatctgtgaa	gagcacatat	1920

```

gtgtcagggc acaattccct ctcataaaaa ccacacagcc tggaaattgg ccctggccct 1980
tcaagatagc cttctttaga atatgatttg gctagaaaga ttcttaaata tgtggaatat 2040
gattattctt agctggaata ttttctctac ttctgtctg catgcccaag gcttctgaag 2100
cagccaatgt cgatgcaaca acatttgtaa ctttaggtaa actgggatta tgttgtagtt 2160
taacattttg taactgtgtg cttatagttt acaagtgaga cccgatatgt cattatgcat 2220
acttatatta tcttaagcat gtgtaatgct ggatgtgtac agtacagtac ttaacttgta 2280
atttgaatct agtatgggtg tctgttttca gctgacttg acaacctgac tggctttgca 2340
caggtgttcc ctgagttggt tgcaggtttc tgtgtgtggg gtgggggatg gggaggagaa 2400
ccttcatggt ggcccacctg gcctggttgt ccaagctgtg cctcgacaca tcctcatccc 2460
aagcatggga cacctcaaga tgaataataa ttcacaaaat ttctgtgaaa tcaaataccag 2520
ttttaagagg agccacttat caaagagatt ttaacagtag taagaaggca aagaataaac 2580
atttgatatt cagcaactga aaaaaaaaaa 2610

```

```

<210> 377
<211> 1145
<212> DNA
<213> Homo sapiens

```

```

<400> 377
attctctccc cagcttgctg agccctttgc tcccctggcg actgcctgga cagtcagcaa 60
ggaattgtct ccagtgcat tttgccctcc tggctgccaa ctctggctgc taaagcggct 120
gccacctgct gcagtctaca cagcttcggg aagaggaaag gaacctcaga ccttccagat 180
cgcttcctct cgcaacaaac tatttgtcgc aggaataaag atggctgctg aaccagtaga 240
agacaattgc atcaactttg tggcaatgaa atttattgac aatacgcttt actttatagc 300
tgaagatgat gaaaacctgg aatcagatta ctttggcaag cttgaatcta aattatcagt 360
cataagaaat ttgaatgacc aagttctctt cattgaccaa ggaaatcggc ctctatttga 420
agatatgact gattctgact gtagagataa tgcaccccg accatattta ttataagtat 480
gtataaagat agccagccta gaggtatggc tgtaactatc tctgtgaagt gtgagaaaat 540
ttcaactctc tcctgtgaga acaaaattat ttccctttaag gaaatgaatc ctctgataa 600
catcaaggat acaaaaagtg acatcatatt ctttcagaga agtgtcccag gacatgataa 660
taagatgcaa tttgaatctt catcatacga aggatacttt ctagcttggtg aaaaagagag 720
agaccttttt aaactcattt tgaaaaaaga ggatgaattg ggggatagat ctataatggt 780
cactgttcaa aacgaagact agctattaaa atttcatgcc gggcgagtg gctcacgcct 840
gtaatcccag ccctttggga ggctgaggcg ggcagatcac cagaggtcag gtgttcaaga 900

```

ccagcctgac caacatggtg aaacctcatc tctactaaaa atacaaaaaa ttagctgagt 960
 gtagtgacgc atgccctcaa tcccagctac tcaagaggct gaggcaggag aatcacttgc 1020
 actccggagg tagaggttgt ggtgagccga gattgcacca ttgcgctcta gcctgggcaa 1080
 caacagcaaa actccatctc aaaaaataaa ataaataaat aaacaaataa aaaattcata 1140
 atgtg 1145

<210> 378
 <211> 924
 <212> DNA
 <213> Homo sapiens

<400> 378
 cagagcccca cgaaggacca gaacaagaca gagtgcctcc tgccgatcca aacatgagcc 60
 gcctgcccgt cctgctcctg ctccaactcc tgggtccgcc cggactccaa gctcccatga 120
 cccagacaac gcccttgaag acaagctggg ttaactgctc taacatgac gatgaaatta 180
 taacacactt aaagcagcca cctttgcctt tgctggactt caacaacctc aatggggaag 240
 accaagacat tctgatggaa aataaccttc gaaggccaaa cctggaggca ttcaacaggg 300
 ctgtcaagag ttacagaaac gcatcagcaa ttgagagcat tcttaaaaat ctctgccat 360
 gtctgcccct ggccacggcc gcacccacgc gacatccaat ccatatcaag gacggtgact 420
 ggaatgaatt ccggaggaaa ctgacgttct atctgaaaac ccttgagaat gcgcaggctc 480
 aacagacgac tttagcctc gcgatctttt gagtccaacg tccagctcgt tctctgggcc 540
 ttctcaccac agagcctcgg gacatcaaaa acagcagaac ttctgaaacc tctgggtcat 600
 ctctcacaca ttccaggacc agaagcattt caccttttcc tgcggcatca gatgaattgt 660
 taattatcta atttctgaaa tgtgcagctc ccatttggcc ttgtgcggtt gtgttctcat 720
 ttttatccca ttgagactat ttatttatgt atgtatgtat ttatttattt attgcctgga 780
 gtgtgaactg tatttatatt agcagaggag ccatgtcctg ctgcttctgc aaaaaactca 840
 gagtggggtg gggagcatgt tcatttgtac ctcgagtttt aaactgggtc ctagggatgt 900
 gtgagaataa actagactct gaac 924

<210> 379
 <211> 4932
 <212> DNA
 <213> Homo sapiens

<400> 379
 ggcagggcac acctggattg cattagaatg agactcacta cccagttcag gtgtgttgcg 60
 ttgtgggtct ccggcacatt tcagaggctg attaggaccc tgacccca ctgggggtta 120

cacccctaaa agcaggtgtg tcccgtggca actgagtggg tgcgtgaaaa ggggggatca	180
tcaattacca gctggagcaa tcgaatcggg taaatgtgaa tcaagtcaca gtgcttcctt	240
aaccaaacct ctctgttggg gtcagccaca gcctaaaccg cctgccgttc agcctgagag	300
gctgctgcta gcctgctcac gcatgcagcc cgggctgcag aggaagtgtg gggaggaagg	360
aagtgggtat agaaggggtgc tgagatgtgg gtcttgaaga gaatagccat aacgtctttg	420
tcactaaaat gttccccagg ggccttcggc gagtcttttt gtttggtttt ttgtttttaa	480
tctgtggctc ttgataatth atctagtggg tgcctacacc tgaaaaacaa gacacagtgt	540
ttactatca acgaaagaac tggacggctc cccgccgcag tcccactccc cgagtttgtg	600
gctggcattt gggccacgcc gggctgggcg gctcacagcg aggggcgcgc agtttggggg	660
cacacagctc cgcttctagg ccccaaccac cgttaaaagg ggaagcccgt gccccatcag	720
gtccgctctt gctgagccca gagccatccc gcgctctgcg ggctgggagg cccggggccag	780
acgcgagtc tgcgcagccg aggttcccca gcgccccctg cagccgcgcg taggcagaga	840
cggagcccgg ccctgcgcct ccgcaccacg cccgggaccc caccagcgg cccgtacccg	900
gagaagcagc gcgagcacc gaagctccc gctcggcggc agaaaccggg agtggggccg	960
ggcgagtgcg cggcatccca ggccggcccc aacgtccgcc cgcggtgggc cgacttcccc	1020
tcctcttccc tctctccttc ctttagcccc ctggcgccgg acacgctgcg cctcatctct	1080
tggggcggtc tccccggtg gccaacgctc gcatcccgtg caactttggg gtagtggccg	1140
cttagtggtg aatgttcccc accgagagcg catggcttgg gaagcgaggc gcgaacccgg	1200
gccccgaagc cgccgtccgg gagacggtga tgctgttgct gtgcctgggg gtcccgaccg	1260
gccgccccta caacgtggac actgagagcg cgctgcttta ccaggggccc cacaacacgc	1320
tgttcggcta ctcggtcgtg ctgcacagcc acggggcgaa ccgatggctc ctagtgggtg	1380
cgcccactgc caactggctc gccaacgctt cagtgatcaa tcccggggcg atttacagat	1440
gcaggatcgg aaagaatccc ggccagacgt gcgaacagct ccagctgggt agccctaagt	1500
gagaaccttg tggaaagact tgtttggaag agagagacaa tcagtgggtg ggggtcacac	1560
tttccagaca gccaggagaa aatggatcca tcgtgacttg tgggcataga tggaaaaata	1620
tattttacat aaagaatgaa aataagctcc ccactgggtg ttgctatgga gtgccccctg	1680
atttacgaac agaactgagt aaaagaatag ctccgtgtta tcaagattat gtgaaaaaat	1740
ttggagaaaa ttttgcacat tgtcaagctg gaatatccag tttttacaca aaggatttaa	1800
ttgtgatggg ggccccagga tcactttact ggactggctc tctttttgtc tacaatataa	1860
ctacaaataa atacaaggct tttttagaca aacaaaatca agtaaaattt ggaagttatt	1920
taggatattc agtcggagct ggtcattttc ggagccagca tactaccgaa gtagtcggag	1980

gagctcctca	acatgagcag	attggttaagg	catatatatt	cagcattgat	gaaaaagaac	2040
taaatatctt	acatgaaatg	aaaggtaaaa	agcttggatc	gtactttgga	gcttctgtct	2100
gtgctgtgga	cctcaatgca	gatggcttct	cagatctgct	cgtgggagca	cccatgcaga	2160
gcaccatcag	agaggaagga	agagtgtttg	tgtacatcaa	ctctggctcg	ggagcagtaa	2220
tgaatgcaat	ggaaacaaac	ctcgttgga	gtgacaaata	tgctgcaaga	tttggggaat	2280
ctatagttaa	tcttggcgac	attgacaatg	atggctttga	agatgttgct	atcggagctc	2340
cacaagaaga	tgacttgcaa	ggtgctat	atatttaca	tggccgtgca	gatgggatct	2400
cgtcaacctt	ctcacagaga	attgaaggac	ttcagatcag	caaatcgta	agtatgtttg	2460
gacagtctat	atcaggacaa	attgatgcag	ataataatgg	ctatgtagat	gtagcagttg	2520
gtgcttttcg	gtctgattct	gctgtcttgc	taaggacaag	acctgtagta	attgttgacg	2580
cttctttaag	ccaccctgag	tcagtaaata	gaacgaaatt	tgactgtgtt	gaaaatggat	2640
ggccttctgt	gtgcatagat	ctaacacttt	gtttctcata	taagggaag	gaagttccag	2700
gttacattgt	tttggtttat	aacatgagtt	tggatgtgaa	cagaaaggca	gagtctccac	2760
caagattcta	tttctcttct	aatggaactt	ctgacgtgat	tacaggaagc	atacaggtgt	2820
ccagcagaga	agctaactgt	agaacacatc	aagcatttat	gcggaaagat	gtgcgggaca	2880
tcctcacccc	aattcagatt	gaagctgctt	accaccttgg	tcctcatgtc	atcagtaaac	2940
gaagtacaga	ggaattccca	ccacttcagc	caattcttca	gcagaagaaa	gaaaaagaca	3000
taatgaaaaa	aacaataaac	tttgcaaggt	tttgtgccca	tgaaaattgt	tctgctgatt	3060
tacaggtttc	tgcaaagatt	gggtttttga	agcccatga	aaataaaaca	tatcttgctg	3120
ttggggagtat	gaagacattg	atgttgaatg	tgtccttggt	taatgctgga	gatgatgcat	3180
atgaaacgac	tctacatgtc	aaactacccg	tgggtcttta	tttcattaag	attttagagc	3240
tggaagagaa	gcaaataaac	tgtgaagtca	cagataactc	tggcgtggta	caacttgact	3300
gcagtattgg	ctatatatat	gtagatcatc	tctcaaggat	agatattagc	tttctcctgg	3360
atgtgagctc	actcagcaga	gcggaagagg	acctcagtat	cacagtgcac	gctacctgtg	3420
aaaatgaaga	ggaaatggac	aatctaaagc	acagcagagt	gactgtagca	atacctttaa	3480
aatatgaggt	taagctgact	gttcatgggt	ttgtaaaccc	aacttcattt	gtgtatggat	3540
caaatgatga	aatgagcct	gaaacgtgca	tgggtggagaa	aatgaactta	actttccatg	3600
ttatcaacac	tggcaatagt	atggctccca	atgttagtgt	ggaaataatg	gtaccaaatt	3660
cttttagccc	ccaaactgat	aagctgttca	acattttgga	tgtccagact	actactggag	3720
aatgccactt	tgaaaattat	caaagagtgt	gtgcattaga	gcagcaaaag	agtgcaatgc	3780

agaccttgaa aggcatagtc cggttcttgt ccaagactga taagaggcta ttgtactgca 3840
 taaaagctga tccacattgt ttaaatttct tgtgtaattt tgggaaaatg gaaagtggaa 3900
 aagaagccag tgttcatatc caactggaag gccggccatc catttttagaa atggatgaga 3960
 cttcagcact caagtttgaa ataagagcaa caggttttcc agagccaaat ccaagagtaa 4020
 ttgaactaaa caaggatgag aatggtgctc atgttctact ggaaggacta catcatcaaa 4080
 gacccaaacg ttatttcacc atagtgatta tttcaagtag cttgctactt ggacttattg 4140
 tacttctgtt gatctcatat gttatgtgga aggctggctt ctttaaaaga caatacaaat 4200
 ctatcctaca agaagaaaac agaagagaca gttggagtta tatcaacagt aaaagcaatg 4260
 atgattaagg acttctttca aattgagaga atggaaaaca gactcagggt gtagtaaaga 4320
 aatttaaaag acactgttta caagaaaaaa tgaattttgt ttggacttct tttactcatg 4380
 atcttgtgac atattatgtc ttcattgcaag gggaaaatct cagcaatgat tactctttga 4440
 gatagaagaa ctgcaaaggc aataatacag ccaaagataa tctctcagct tttaaatggg 4500
 tagagaaaca ctaaagcatt caatttattc aagaaaagta agcccttgaa gatattctga 4560
 aatgaaagta taactgaggt aaattatact ggagaagtct tagacttgaa atactactta 4620
 ccatatgtgc ttgcctcagt aaaatgaacc ccactgggtg ggcagagggt catttcaa 4680
 acatctttga tacttggtca aaatatgttc tttaaaaata taatttttta gagagctggt 4740
 cccaaatttt ctaacgagtg gaccattatc actttaaagc cctttattta taatacattt 4800
 cctacgggct gtgttccaac aaccattttt tttcagcaga ctatgaatat tatagtatta 4860
 taggccaaac tggcaaactt cagactgaac atgtacactg gtttgagctt agtgaaatga 4920
 cttccggaat ct 4932

<210> 380

<211> 4740

<212> DNA

<213> Homo sapiens

<400> 380

tggcttcctt gtggttcctc agtgggtgcct gcaaccctg gttcacctcc ttccagggtc 60
 tggctccttc cagccatggc tctcagagtc cttctgttaa cagccttgac cttatgtcat 120
 gggttcaact tggacactga aaacgcaatg acctccaag agaacgcaag gggcttcggg 180
 cagagcgtgg tccagcttca gggatccagg gtgggtggtg gagccccca ggagatagtg 240
 gctgccaaac aaagggggcag cctctaccag tgcgactaca gcacaggctc atgcgagccc 300
 atccgcctgc aggtccccgt ggaggccgtg aacatgtccc tgggcctgtc cctggcagcc 360
 accaccagcc cccctcagct gctggcctgt ggtcccaccg tgcaccagac ttgcagttag 420

aacacgtatg tgaaagggct ctgcttctcg tttggatcca acctacggca gcagccccag	480
aagttcccag aggccctccg aggggtgtcct caagaggata gtgacattgc cttcttgatt	540
gatggctctg gtagcatcat cccacatgac tttcggcgga tgaaggagtt tgtctcaact	600
gtgatggagc aattaaaaaa gtccaaaacc ttgttctctt tgatgcagta ctctgaagaa	660
ttccggattc actttacctt caaagagttc cagaacaacc ctaacccaag atcactggtg	720
aagccaataa cgcagctgct tgggcggaca cacacggcca cgggcatccg caaagtggta	780
cgagagctgt ttaacatcac caacggagcc cgaaagaatg cctttaagat cctagttgtc	840
atcacggatg gagaaaagtt tggcgatccc ttgggatatg aggatgtcat ccctgaggca	900
gacagagagg gagtcatcgc ctacgtcatt ggggtgggag atgccttccg cagtgaagaa	960
tccccccaag agcttaatac catcgcatcc aagccgcctc gtgatcacgt gttccaggtg	1020
aataactttg aggctctgaa gaccattcag aaccagcttc gggagaagat ctttgcgatc	1080
gagggtactc agacaggaag tagcagctcc tttgagcatg agatgtctca ggaaggcttc	1140
agcgtgccca tcacctctaa tggccccttg ctgagcactg tggggagcta tgactgggct	1200
ggtggagttc ttctatatac atcaaaggag aaaagcacct tcatcaacat gaccagagt	1260
gattcagaca tgaatgatgc ttacttgggt tatgctgccg ccatcatctt acggaaccgg	1320
gtgcaaagcc tggttctggg ggcacctcga tatcagcaca tcggcctggg agcgatgttc	1380
aggcagaaca ctggcatgtg ggagtcacac gctaattgtc agggcaccca gatcggcgcc	1440
tacttcgggg cctccctctg ctccgtggac gtggacagca acggcagcac cgacctggtc	1500
ctcatcgggg cccccatta ctacgagcag acccgagggg gccagggtgtc cgtgtgcccc	1560
ttgcccaggg ggagggtctg gtggcagttg gatgctgttc tctacgggga gcagggccaa	1620
ccctggggcc gctttggggc agccctaaca gtgctggggg acgtaaattg ggacaagctg	1680
acggacgtgg ccattggggc cccaggagag gaggacaacc ggggtgctgt ttacctgttt	1740
cacggaacct caggatctgg catcagcccc tcccatagcc agcggatagc aggtccaag	1800
ctctctccca ggctccagta ttttggtcag tcaactgagt ggggccagga cctcacaatg	1860
gatggactgg tagacctgac tgtaggagcc caggggcacg tgctgctgct cagggtccag	1920
ccagtactga gagtcaaggc aatcatggag ttcaatccca gggaagtggc aaggaatgta	1980
tttgagtgtg atgatcaggt ggtgaaaggc aaggaagccg gagagggtcag agtctgcctc	2040
catgtccaga agagcacacg ggatcggcta agagaaggac agatccagag tgttggtgact	2100
tatgacctgg ctctggactc cggccgcccc cattccccgc cgtcttcaa tgagacaaag	2160
aacagcacac gcagacagac acaggtcttg gggctgacct agacttgtga gaccctgaaa	2220
ctacagttgc cgaattgcat cgaggaccca gtgagcccca ttgtgctgcg cctgaacttc	2280

tctctggtgg	gaacgccatt	gtctgctttc	gggaacctcc	ggccagtgt	ggcggaggat	2340
gctcagagac	tcttcacagc	cttgtttccc	tttgagaaga	attgtggcaa	tgacaacatc	2400
tgccaggatg	acctcagcat	caccttcagt	ttcatgagcc	tggactgcct	cgtggtgggt	2460
gggccccggg	agttcaacgt	gacagtgtg	gtgagaaatg	atggtgagga	ctcctacagg	2520
acacaggtca	ccttcttctt	cccgtttgac	ctgtcctacc	ggaaggtgtc	cacactccag	2580
aaccagcgct	cacagcgatc	ctggcgctg	gcctgtgagt	ctgcctctc	caccgaagtg	2640
tctggggcct	tgaagagcac	cagctgcagc	ataaaccacc	ccatcttccc	ggaaaactca	2700
gaggtcacct	ttaatatcac	gtttgatgta	gactctaagg	cttcccttgg	aaacaaactg	2760
ctcctcaagg	ccaatgtgac	cagtggagaac	aacatgccca	gaaccaacaa	aaccgaattc	2820
caactggagc	tgccggtgaa	atatgctgtc	tacatggtgg	tcaccagcca	tggggtctcc	2880
actaaatatc	tcaacttcac	ggcctcagag	aataccagtc	gggtcatgca	gcatcaatat	2940
caggtcagca	acctggggca	gaggagcccc	cccatcagcc	tgggtgttctt	ggtgcccgtc	3000
cggctgaacc	agactgtcat	atgggaccgc	ccccaggtca	ccttctccga	gaacctctcg	3060
agtacgtgcc	acaccaagga	gcgcttgccc	tctcactccg	actttctggc	tgagcttcgg	3120
aaggcccccg	tggtgaactg	ctccatcgct	gtctgccaga	gaatccagtg	tgacatcccc	3180
ttcttttgga	tccaggaaga	attcaatgct	accctcaaag	gcaacctctc	gtttgactgg	3240
tacatcaaga	cctcgcataa	ccacctcctg	atcgtgagca	cagctgagat	cttgtttaac	3300
gattccgtgt	tcacctgtgt	gccgggacag	ggggcgtttg	tgaggtccca	gacggagacc	3360
aaagtggagc	cgttcgagggt	ccccaacccc	ctgccgtcca	tcgtgggcag	ctctgtcggg	3420
ggactgctgc	tcctggccct	catcaccgcc	gcgctgtaca	agctcggctt	cttcaagcgg	3480
caatacaagg	acatgatgag	tgaagggggg	cccccggggg	ccgaacccca	gtagcggctc	3540
cttcccgaca	gagctgcctc	tcggtggcca	gcaggactct	gcccagacca	cacgagcccc	3600
caggctgctg	gacacgtcgg	acagcgaagt	atccccgaca	ggacgggctt	gggcttccat	3660
ttgtgtgtgt	gcaagtgtgt	atgtgcgtgt	gtgcgagtgt	gtgcaagtgt	ctgtgtgcaa	3720
gtgtgtgcac	gtgtgcgtgt	gcgtgcatgt	gcactcgcac	gcccattgtgt	gagtgtgtgc	3780
aagtatgtga	gtgtgtccag	tgtgtgtgcg	tgtgtccatg	tgtgtgcagt	gtgtgcatgt	3840
gtgcgagtgt	gtgcatgtgt	gtgctcaggg	gctgtggctc	acgtgtgtga	ctcagagtgt	3900
ctctggcggtg	tgggtaggtg	acggcagcgt	agcctctccg	gcagaagggg	actgcctggg	3960
ctcccttggtg	cgtgggtaag	ccgctgctgg	gttttctctc	gggagagggg	acggtcaatc	4020
ctgtgggtga	agagagaggg	aaacacagca	gcattctctc	actgaaagaa	gtgggacttc	4080

ccgtcgcttg cgagcctgcg gcctgctgga gcctgcgcag cttggatgga tactccatga 4140
 gaaaagccgt ggggtggaacc aggagcctcc tccacaccag cgctgatgcc caataaagat 4200
 gccactgag gaatcatgaa gcttcctttc tggattcatt tattatttca atgtgacttt 4260
 aatTTTTTtg atggataagc ctgtctatgg tacaaaaatc acaaggcatt caagtgtaca 4320
 gtgaaaagtc tccctttcca gatattcaag tcacctcctt aaaggtagtc aagattgtgt 4380
 tttgaggttt ccttcagaca gattccaggc gatgtgcaag tgtatgcacg tgtgcacaca 4440
 ccacacacat acacacacac aagctTTTTT acacaaatgg tagcatactt tatattggtc 4500
 tgtatcttgc tttttttcac caatatttct cagacatcgg ttcataataa gacataaatt 4560
 actttttcat tcttttatac cgctgcatag tattccattg tgtgagtgtg ccataatgta 4620
 ttttaaccagt cttcttttga tatactattt tcctctcttg ttattgcacg tgctgagtta 4680
 ataaatcaaa tatatgtcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat 4740

<210> 381
 <211> 2798
 <212> DNA
 <213> Homo sapiens

<400> 381
 cgttgctgtc gctctgcacg cacctatgtg gaaactaaag cccagagaga aagtctgact 60
 tgccccacag ccagtgagtg actgcagcag caccagaatc tggctctgtt cctgtttggc 120
 tcttctacca ctacggcttg ggatctcggg catgggtggct ttgccaatgg tccttgtttt 180
 gctgctggtc ctgagcagag gtgagagtga attggacgcc aagatcccat ccacagggga 240
 tgccacagaa tggcggaatc ctcacctgtc catgctgggg tcctgccagc cagccccctc 300
 ctgccagaag tgcctcctct cacaccccag ctgtgcatgg tgcaagcaac tgaacttcac 360
 cgcgctcgga gaggcggagg cgcggcgctg cgcccgacga gaggagctgc tggctcgagg 420
 ctgcccgtctg gaggagctgg aggagccccg cggccagcag gaggtgctgc aggaccagcc 480
 gctcagccag ggcgcccgcg gagagggtgc caccagctg gcgcccagc gggctccgggt 540
 cacgctgcgg cctggggagc cccagcagct ccaggctcgc ttccttcgtg ctgagggata 600
 cccggtggac ctgtactacc ttatggacct gagctactcc atgaaggacg acctggaacg 660
 cgtgcgccag ctcgggcacg ctctgctggt ccggctgcag gaagtcaccc attctgtgcg 720
 cattggtttt gggtcctttg tggacaaaac ggtgctgccc tttgtgagca cagtaccctc 780
 caaactgcgc caccctgcc ccacccggct ggagcgctgc cagtcaccat tcagctttca 840
 ccatgtgctg tccctgacgg gggacgcaca agccttcgag cgggaggtgg ggcgccagag 900
 tgtgtccggc aatctggact cgcctgaagg tggcttcgat gccattctgc aggctgcact 960

ctgccaggag	cagattggct	ggagaaatgt	gtcccggctg	ctggtgttca	cttcagacga	1020
cacattccat	acagctgggg	acgggaagtt	gggcggcatt	ttcatgcca	gtgatgggca	1080
ctgccacttg	gacagcaatg	gcctctacag	tcgcagcaca	gagtttgact	acccttctgt	1140
gggtcaggta	gcccaggccc	tctctgcagc	aaatatccag	cccatctttg	ctgtcaccag	1200
tgccgcactg	cctgtctacc	aggagctgag	taaactgatt	cctaagtctg	cagttgggga	1260
gctgagttag	gactccagca	acgtggtaca	gctcatcatg	gatgcttata	atagcctgtc	1320
ttccaccgtg	acccttgaac	actcttcact	ccctcctggg	gtccacattt	cttacgaatc	1380
ccagtgtgag	ggctctgaga	agagggaggg	taaggctgag	gatcgaggac	agtgcaacca	1440
cgtccgaatc	aaccagacgg	tgactttctg	ggtttctctc	caagccaccc	actgcctccc	1500
agagcccat	ctcctgaggg	tccgggccct	tggcttctca	gaggagctga	ttgtggagtt	1560
gcacacgtg	tgtgactgta	attgcagtga	caccagccc	caggctcccc	actgcagtga	1620
tggccaggga	cacctacaat	gtggtgtatg	cagctgtgcc	cctggccgcc	taggtcggct	1680
ctgtgagtgc	tctgtggcag	agctgtcctc	cccagacctg	gaatctgggt	gccgggctcc	1740
caatggcaca	gggcccctgt	gcagtggaaa	gggtcactgt	caatgtggac	gctgcagctg	1800
cagtggacag	agctctgggc	atctgtgcga	gtgtgacgat	gccagctgtg	agcgacatga	1860
gggcatcctc	tgcggaggct	ttggtcgctg	ccaatgtgga	gtatgtcact	gtcatgccaa	1920
ccgcacgggc	agagcatgcg	aatgcagtgg	ggacatggac	agttgcatca	gtcccagggg	1980
agggctctgc	agtgggcatg	gacgctgcaa	atgcaaccgc	tgccagtgtc	tggacggcta	2040
ctatggtgct	ctatgcgacc	aatgcccagg	ctgcaagaca	ccatgcgaga	gacaccggga	2100
ctgtgcagag	tgtggggcct	tcaggactgg	cccactggcc	accaactgca	gtacagcttg	2160
tgcccatacc	aatgtgaccc	tggccttggc	ccctatcttg	gatgatggct	ggtgcaaaga	2220
gcggaccctg	gacaaccagc	tgttcttctt	cttgggtggag	gatgacgcca	gaggcacgggt	2280
cgtgctcaga	gtgagacccc	aagaaaaggg	agcagaccac	acgcaggcca	ttgtgctggg	2340
ctgcgtaggg	ggcatcgtgg	cagtggggct	ggggctggtc	ctggcttacc	ggctctcggt	2400
ggaaatctat	gaccgccggg	aatacagtcg	ctttgagaag	gagcagcaac	aactcaactg	2460
gaagcaggac	agtaatcctc	tctacaaaag	tgccatcacg	accaccatca	atcctcgctt	2520
tcaagaggca	gacagtccca	ctctctgaag	gagggaggga	cacttaccca	aggctcttct	2580
ccttgaggga	cagtgggaac	tggagggtag	gaggaagggg	gggtctgtaa	gaccttggtg	2640
ggggactaat	tcactggcga	ggtgcggcca	ccaccctact	tcattttcag	agtgacaccc	2700
aagagggctg	cttcccatgc	ctgcaacctt	gcattccatct	gggctacccc	accaagtat	2760
acaataaagt	cttacctcag	aaaaaaaaa	aaaaaaaaa			2798

<210> 382
 <211> 1837
 <212> DNA
 <213> Homo sapiens

<400> 382
 gagccgcgca cgggactggg aaggggaccc acccgaggggt ccagccacca gccccctcac 60
 taatagcggc caccocggca gcggcggcag cagcagcagc gacgcagcgg cgacagctca 120
 gagcagggag gccgcgccac ctgcggggccg gccggagcgg gcagccccag gccccctccc 180
 cgggcacccg cgttcatgca acgcctgggtg gcctgggacc cagcatgtct cccccctgccg 240
 ccgcgcgcgc ctgcctttaa atccatggaa gtggccaact tctactacga ggcggactgc 300
 ttggctgctg cgtacggcgg caaggcggcc ccgcggcgcc cccccgggc cagacccggg 360
 ccgcgcccc ccgcggcgga gctgggcagc atcggcgacc acgagcgcg catcgacttc 420
 agcccgtaac tggagccgct gggcgcgccg caggccccgg cgcccgccac ggccacggac 480
 accttcgagg cggtccgcgc cgcgcccgcc ccgcgcccc cctcctccgg gcagcaccac 540
 gacttcctct ccgacctctt ctccgacgac tacgggggca agaactgcaa gaagccggcc 600
 gagtacggct acgtgagcct ggggcgcctg ggggcccga agggcgcgct gcaccccggc 660
 tgcttcgcgc ccctgcaccc accgcccccg ccgcgcgcgc cgcccgccga gctcaaggcg 720
 gagccgggct tcgagcccg gcgactgcaag cggaaggagg agggccggggc gccgggcggc 780
 ggcgcaggca tggcgggcgg cttcccgtac gcgctgcgcg cttacctcg ctaccaggcg 840
 gtgcgcgagc gcagcagcgg gagcctctcc acgtcctcct cgtccagccc gcccggcagc 900
 ccgagcccc ctgacgcaa ggcgcccccg accgcctgct acgcgggggc cgcgccggcg 960
 ccctcgcagg tcaagagcaa ggccaagaag accgtggaca agcacagcga cgagtacaag 1020
 atccggcgcg agcgcaacaa catcgccgtg cgcaagagcc gcgacaaggc caagatgcgc 1080
 aacctggaga cgcagcacia ggtcctggag ctcacggccg agaacgagcg gctgcagaag 1140
 aaggtggagc agctgtcgcg cgagctcagc accctgcgga acttggtcaa gcagctgccc 1200
 gagccccctgc tcgcctcctc cggccactgc tagcgcgggc ccgcgcgcgc tccccctgcc 1260
 ggccgggggct gagactccgg ggagcgcccc cgcccgcgcc ctgccccccg cccccggcgg 1320
 cgccggcaaa actttggcac tggggcactt ggcagcgcg ggagcccgtc ggtaatttta 1380
 atatatttatt atatatatat atctatatatt ttgtccaaac caaccgcaca tgagatggg 1440
 gctcccgccc gtggtgttat ttaaagaaga aacgtctatg tgtacagatg aatgataaac 1500
 tctctgcttc tccctctgcc cctctccagg cgccggcggg cgggccgggt tcgaagtga 1560
 tgcaatcgggt taaacatgg ctgaacgcgt gtgtacacgg gactgacgca acccacgtgt 1620

aactgtcagc cgggccctga gtaatcgctt aaagatgttc ctacgggctt gttgctgttg 1680
 atgttttgtt ttgttttgtt ttttggctt tttttgtatt ataaaaaata atctatttct 1740
 atgagaaaag aggcgtctgt atattttggg aatcttttcc gtttcaagca ttaagaacac 1800
 ttttaataaa cttttttttg agaatgggta caaagcc 1837

<210> 383
 <211> 1678
 <212> DNA
 <213> Homo sapiens

<400> 383
 gcatatactg tcatcatctt ggaaagaaaa ggctgagaac gtaaaactga ggacagagga 60
 ggaaagcagg gtgacccttg atgttgccct agaaaatgga aaacaaaaca cagcaaaaca 120
 gaaaaacaga agatctgact ctgccttttag ccaggaaaac agtttggggg agtaaaaagt 180
 attagggaaa agagtgggca ttttgccctg aaaaaagggt tctagagcca tctgggcttt 240
 ccgggaacct ggaccagact ctggcccagt aggatgtccc cgtgtcctcc ccagcagagc 300
 aggaacaggg tgatacagct gtccacttca gagctaggag agatggaact gacttggcag 360
 gagatcatgt ccatcaccga gctgcagggt ctgaatgtc caagtgagcc atcatttgag 420
 cccaagccc cagctccata ccttggacct ccaccacca caacttactg cccctgctca 480
 atccaccag attctggctt cccacttctt ccaccacctt atgagctccc agcatccaca 540
 tcccatgtcc cagatcccc atactcctat ggcaacatgg ccataccagt ctccaagcca 600
 ctgagcctct caggcctgct cagtgagccg ctccaagacc ccttagccct cctggacatt 660
 gggctgccag cagggccacc taagcccaa gaagaccag aatccgactc aggattatcc 720
 ctcaactata gcgatgctga atctcttgag ctggagggga cagaggctgg tcggcggcgc 780
 agcgaatatg tagagatgta ccagtgagg taccctact cactcatgcc caactccttg 840
 gccactcca actatacctt gccagctgct gagacccct tggccttaga gccctctca 900
 ggccctgtgc gggctaagcc cactgcacgg ggggaggcag ggagtcggga tgaacgtcgg 960
 gccttggcca tgaagattcc ttttcctacg gacaagattg tcaacttgcc ggtagatgac 1020
 tttaatgagc tattggcaag gtaccgctg acagagagcc agctagcgt agtccgggac 1080
 atccgacgac ggggcaaaaa caaggaggca gccagaact gccgcaagag gaagctggaa 1140
 accattgtgc agctggagcg ggagctggag cggctgacca atgaacggga gcggcttctc 1200
 agggcccgcg gggaggcaga ccggaccctg gaggtcatgc gccaacagct gacagagctg 1260
 taccgtgaca tttccagca cttcgggat gaatcaggca acagctactc tcctgaagag 1320
 tacgcgtgc aacaggctgc cgatgggacc atcttccttg tgccccgggg gaccaagatg 1380

gaggccacag actgagctgg cccagagggg tggaaactgct gatgggattt ccttcattcc 1440
 cttctgataa aggtactccc caaccctgag tcccagaagg agctgagttc tctagaccag 1500
 aagaggatga caatggcaac aagtgttttg aagttccaag gtgtgttcaa agaggcttgc 1560
 cttgaggggag ggctggaatc tgtcttccct gactcggctc ctcaggctct tagcctccac 1620
 cttgtctaag ctttgggtcta taaagtgcgc tacagaaaaa aaaaaaaaaa aaaaaaaaaa 1678

<210> 384
 <211> 2106
 <212> DNA
 <213> Homo sapiens

<400> 384
 agtttccctt ccgctcact cgcctgagc agtggagaag gcggcactct ggtggggctg 60
 ctccaggcat gcagatccca caggcgccct ggccagtcgt ctgggcgggtg ctacaactgg 120
 gctggcggcc aggatgggtc ttagactccc cagacaggcc ctggaacccc cccaccttct 180
 tcccagccct gctcgtggtg accgaagggg acaacgccac cttcacctgc agcttctcca 240
 acacatcgga gagcttcgtg ctaaactggt accgcatgag cccagcaac cagacggaca 300
 agctggccgc cttccccgag gaccgcagcc agcccggcca ggactgccgc ttccgtgtca 360
 cacaactgcc caacgggcgt gacttccaca tgagcgtggt caggggcccg cgcaatgaca 420
 gcggcaccta cctctgtggg gccatctccc tggcccccaa ggcgagatc aaagagagcc 480
 tgcgggcaga gctcagggtg acagagagaa gggcagaagt gcccacagcc caccacagcc 540
 cctcaccag gccagccggc cagttccaaa ccctgggtggt tgggtgctgtg ggcgccctgc 600
 tgggcagcct ggtgctgcta gtctgggtcc tggccgtcat ctgctcccg gccgcacgag 660
 ggacaatagg agccaggcgc accggccagc ccctgaagga ggacccctca gccgtgcctg 720
 tgttctctgt ggactatggg gagctggatt tccagtggcg agagaagacc ccggagcccc 780
 ccgtgccctg tgtccctgag cagacggagt atgccaccat tgtcttctct agcggaatgg 840
 gcacctcatc ccccgcccgc aggggctcag ccgacggccc tcggagtgcc cagccactga 900
 ggccctgagga tggacactgc tcttggcccc tctgaccggc ttccttggcc accagtgttc 960
 tgcagaccct ccaccatgag cccgggtcag cgcatttctt caggagaagc aggcagggtg 1020
 caggccattg caggccgtcc aggggctgag ctgcctgggg gcgaccgggg ctccagcctg 1080
 cacctgcacc aggcacagcc ccaccacagg actcatgtct caatgccac agtgagccca 1140
 ggcagcaggt gtcaccgtcc cctacagga gggccagatg cagtcaactgc ttcaggtcct 1200
 gccagcacag agctgcctgc gtccagctcc ctgaatctct gctgctgctg ctgctgctgc 1260
 tgctgctgcc tgcggcccg ggctgaaggc gccgtggccc tgccctgacgc cccggagcct 1320

cctgcctgaa cttgggggct ggttggagat ggccttggag cagccaaggt gcccctggca 1380
 gtggcatccc gaaacgccct ggacgcaggg cccaagactg ggcacaggag tgggaggtac 1440
 atggggctgg ggactcccca ggagttatct gtcacctgca ggcctagaga agtttcaggg 1500
 aaggtcagaa gagctcctgg ctgtggtggg cagggcagga aaccctccc acctttacac 1560
 atgccaggc agcacctcag gccctttgtg gggcagggaa gctgaggcag taagcgggca 1620
 ggcagagctg gaggcctttc aggccagcca gcactctggc ctctgccgc cgcattccac 1680
 cccagcccct cacaccactc gggagagggg catcctacgg tcccaaggctc aggagggcag 1740
 ggctgggggt gactcaggcc cctcccagct gtggccacct ggggtgtggg agggcagaag 1800
 tgcaggcacc tagggccccc catgtgcccc ccctgggagc tctccttgga acccattcct 1860
 gaaattatct aaaggggttg gccgggctcc caccagggcc tgggtgggaa ggtacaggcg 1920
 ttccccggg gcctagtacc ccgcgtggc ctatccactc ctcacatcca cacactgcac 1980
 cccactcct ggggcagggc caccagcatc caggcggcca gcaggcacct gagtggctgg 2040
 gacaagggat ccccttccc tgtggttcta ttatattata attataatta aatatgagag 2100
 catgct 2106

<210> 385
 <211> 439
 <212> DNA
 <213> Homo sapiens

<400> 385
 ccgcagcatg agctccgcag ccgggttctg cgctcacgc cccgggctgc tgttcctggg 60
 gttgctgctc ctgccacttg tggtcgcctt cgccagcgt gaagctgaag aagatgggga 120
 cctgcagtgc ctgtgtgtga agaccacctc ccagggtccgt cccaggcaca tcaccagcct 180
 ggaggtgatc aaggccggac cccactgccc cactgcccga ctgatagcca cgctgaagaa 240
 tggaaggaaa atttgcttgg acctgcaagc cccgctgtac aagaaaataa ttaagaaact 300
 tttggagagt tagctactag ctgcctacgt gtgtgcattt gctatatagc atacttcttt 360
 tttccagttt caatctaact gtgaaagaaa cttctgatat ttgtgttatc cttatgattt 420
 taaataaaca aaataaatc 439

<210> 386
 <211> 2705
 <212> DNA
 <213> Homo sapiens

<400> 386
 tgctcgctcc agggcgcaac catgtcgcca tttcttcgga ttggcttgtc caactttgac 60

tgcggggcct gccagtccttg tcagggcgag gctgttaacc cttactgtgc tgtgctcgtc	120
aaagagtatg tcgaatcaga gaacgggcag atgtatatcc agaaaaagcc taccatgtac	180
ccaccctggg acagcacttt tgatgcccac atcaacaagg gaagagtcac gcagatcatt	240
gtgaaaggca aaaacgtgga cctcatctct gaaaccaccg tggagctcta ctcgctggct	300
gagaggtgca ggaagaacaa cggaagaca gaaatatggt tagagctgaa acctcaaggc	360
cgaatgctaa tgaatgcaag atactttctg gaaatgagtg acacaaagga catgaatgaa	420
tttgagacgg aaggcttctt tgctttgcat cagcgccggg gtgccatcaa gcaggcaaag	480
gtccaccacg tcaagtgcc aagagttcact gccaccttct tcccacagcc cacattttgc	540
tctgtctgcc acgagtttgt ctggggcctg aacaaacagg gctaccagtg ccgacaatgc	600
aatgcagcaa ttcacaagaa gtgtattgat aaagttatag caaagtgcac aggatcagct	660
atcaatagcc gagaaacct gttccacaag gagagattca aaattgacat gccacacaga	720
tttaaagtct acaattacaa gagcccgacc ttctgtgaac actgtgggac cctgctgtgg	780
ggactggcac ggcaaggact caagtgtgat gcatgtggca tgaatgtgca tcatagatgc	840
cagacaaagg tggccaacct ttgtggcata aaccagaagc taatggctga agcgctggcc	900
atgattgaga gcaactcaaca ggctcgctgc ttaagagata ctgaacagat cttcagagaa	960
gggtccggttg aaattgggtct cccatgctcc atcaaaaatg aagcaaggcc gccatgttta	1020
ccgacaccgg gaaaaagaga gcctcagggc atttcctggg agtctccgtt ggatgaggtg	1080
gataaaatgt gccatcttcc agaacctgaa ctgaacaaag aaagaccatc tctgcagatt	1140
aaactaaaaa ttgaggattt tatcttgcac aaaatgttgg ggaaaggaag ttttggcaag	1200
gtcttcctgg cagaattcaa gaaaaccaat caattttctg caataaaggc cttaaagaaa	1260
gatgtggtct tgatggacga tgatgttgag tgcacgatgg tagagaagag agttctttcc	1320
ttggcctggg agcatccgtt tctgacgcac atgttttgta cattccagac caaggaaaac	1380
ctcttttttg tgatggagta cctcaacgga ggggacttaa tgtaccacat ccaaagctgc	1440
cacaagttcg acctttccag agcgacgttt tatgctgctg aaatcattct tggctctgcag	1500
ttccttcatt ccaaaggaat agtctacagg gacctgaagc tagataacat cctgttagac	1560
aaagatggac atatcaagat cgcggatttt ggaatgtgca aggagaacat gttaggagat	1620
gccaagacga ataccttctg tgggacacct gactacatcg ccccagagat cttgctgggt	1680
cagaaatata accactctgt ggactggtgg tccttcgggg ttctccttta tgaaatgctg	1740
attggtcagt cgcctttcca cgggcaggat gaggaggagc tcttccactc catccgcatg	1800
gacaatccct ttaccacg gtggctggag aaggaagcaa aggaccttct ggtgaagctc	1860
ttcgtgagag aacctgagaa gaggtggggc gtgaggggag acatccgcca gcacccttg	1920

tttcgggaga tcaactggga ggaacttgaa cggaaggaga ttgaccacc gttccggccg	1980
aaagtgaat caccatttga ctgcagcaat ttcgacaaag aattcttaaa cgagaagccc	2040
cggctgtcat ttgccgacag agcactgatc aacagcatgg accagaatat gttcaggaac	2100
ttttccttca tgaaccccg gatggagcgg ctgatatcct gaatcttgcc cctccagaga	2160
caggaaagaa tttgccttct ccctgggaac tggttcaaga gacactgctt gggttccttt	2220
ttcaacttgg aaaaagaaag aaacactcaa caataaagac tgagaccctg tcgcccccat	2280
gtgactttat ctgtagcaga aaccaagtct acttcactaa tgacgatgcc gtgtgtctcg	2340
tctcctgaca tgtctcacag acgctcctga agttaggtca ttactaacca tagttattta	2400
cttgaaagat gggctctccgc acttggaag gtttcaagac ttgatactgc aataaattat	2460
ggctcttcac ctgggcgcca actgctgatc aacgaaatgc ttgttgaatc aggggcaaac	2520
ggagtacaga cgtctcaaga ctgaaacggc cccattgcct ggtctagtag cggatctcac	2580
tcagccgcag acaagtaatc actaaccctg tttattctat cctatctgtg gatgtataaa	2640
tgctgggggc cagccctgga taggttttta tgggaattct ttacaataaa catagcttgt	2700
acttg	2705

<210> 387
 <211> 6317
 <212> DNA
 <213> Homo sapiens

<400> 387	
tagtaagaca ggtgccttca gttcactctc agtaaggggc tggttgcctg catgagtgtg	60
tgctctgtgt cactgtggat tggagttgaa aaagcttgac tggcgtcatt caggagctgg	120
atggcggtggg acatgtgcaa ccaggactct gagtctgtat ggagtgacat cgagtgtgct	180
gctctgggtg gtgaagacca gcctctttgc ccagatcttc ctgaacttga tctttctgaa	240
ctagatgtga acgacttgga tacagacagc tttctgggtg gactcaagtg gtgcagtgc	300
caatcagaaa taatatccaa tcagtacaac aatgagcctt caaacatatt tgagaagata	360
gatgaagaga atgaggcaaa cttgctagca gtcctcacag agacactaga cagtctccct	420
gtggatgaag acggattgcc ctcatctgat gcgctgacag atggagacgt gaccactgac	480
aatgaggcta gtccttcctc catgcctgac ggcaccctc caccacagga ggcagaagag	540
cogtctctac ttaagaagct cttactggca ccagccaaca ctcagctaag ttataatgaa	600
tgcagtggtc tcagtacca gaacctgca aatcacaatc acaggatcag aacaaaccct	660
gcaattgtta agactgagaa ttcattggagc aataaagcga agagtatttg tcaacagcaa	720
aagccacaaa gacgtccctg ctcgagctt ctcaaatatc tgaccacaaa cgatgaccct	780

cctcacacca aaccacaga gaacagaaac agcagcagag acaaatgcac ctccaaaaag	840
aagtcccaca cacagtcgca gtcacaacac ttacaagcca aaccaacaac tttatctctt	900
cctctgaccc cagagtcacc aaatgacccc aagggttccc catttgagaa caagactatt	960
gaacgcacct taagtgtgga actctctgga actgcaggcc taactccacc caccactcct	1020
cctcataaag ccaaccaaga taacctttt agggcttctc caaagctgaa gtcctcttgc	1080
aagactgtgg tgccaccacc atcaaagaag ccaggtaca gtgagtcttc tggtacacaa	1140
ggcaataact ccaccaagaa agggccggag caatccgagt tgtatgcaca actcagcaag	1200
tcctcagtcc tcaactggtg acacgaggaa aggaagacca agcggcccag tctgcggctg	1260
tttggtgacc atgactattg ccagtcaatt aattccaaaa cagaaataact cattaatata	1320
tcacaggagc tccaagactc tagacaacta gaaaataaag atgtctcttc tgattggcag	1380
gggcagattt gttcttccac agattcagac cagtgtacc tgagagagac tttggaggca	1440
agcaagcagg tctctccttg cagcacaaga aaacagctcc aagaccagga aatccgagcc	1500
gagctgaaca agcacttcgg tcatcccagt caagctgttt ttgacgacga agcagacaag	1560
accggtgaac tgagggacag tgatttcagt aatgaacaat tctccaaact acctatgttt	1620
ataaattcag gactagccat ggatggcctg tttgatgaca gcgaagatga aagtataaaa	1680
ctgagctacc cttgggatgg cacgcaatcc tattcattgt tcaatgtgtc tccttcttgt	1740
tcttctttta actctccatg tagagattct gtgtcaccac ccaaactcctt attttctcaa	1800
agaccccaaa ggatgcgctc tcgttcaagg tccttttctc gacacaggtc gtgttcccga	1860
tcaccatatt ccaggtaag atcaaggtct ccaggcagta gatcctcttc aagatcctgc	1920
tattactatg agtcaagcca ctacagacac cgcacgcacc gaaattctcc cttgtatgtg	1980
agatcacgtt caagatcgcc ctacagccgt cggcccagggt atgacagcta cgaggaatat	2040
cagcacgaga ggctgaagag ggaagaatat cgcagagagt atgagaagcg agagtctgag	2100
agggccaagc aaaggagag gcagaggcag aaggcaattg aagagcgccg tgtgatttat	2160
gtcggtaaaa tcagacctga cacaacacgg acagaactga gggaccgttt tgaagttttt	2220
ggtgaaattg aggagtgcac agtaaactct cgggatgatg gagacagcta tggtttcatt	2280
acctaccgtt atacctgtga tgcttttgct gctcttgaaa atggatacac tttgcgcagg	2340
tcaaacgaaa ctgactttga gctgtacttt tgtggacgca agcaattttt caagtctaac	2400
tatgcagacc tagattcaaa ctcatatgac tttgacctg cttccaccaa gagcaagtat	2460
gactctctgg attttgatag tttactgaaa gaagctcaga gaagcttgcg caggtaacat	2520
gttccctagc tgaggatgac agagggatgg cgaataacctc atgggacagc gcgtccttcc	2580

ctaaagacta ttgcaagtca tacttaggaa tttctcctac tttacactct ctgtacaaaa	2640
acaaaacaaa acaacaacaa tacaacaaga acaacaacaa caataacaac aatgggtttac	2700
atgaacacag ctgctgaaga ggcaagagac agaatgatat ccagtaagca catgtttatt	2760
catgggtgtc agctttgctt ttcctggagt ctcttggtga tggagtgtgc gtgtgtgcat	2820
gtatgtgtgt gtgtatgtat gtgtgtggtg tgtgtgcttg gtttagggga agtatgtgtg	2880
ggtacatgtg aggactgggg gcacctgacc agaatgcgca agggcaaacc atttcaaattg	2940
gcagcagttc catgaagaca cgcttaaaac ctagaacttc aaaatgttcg tattctattc	3000
aaaaggaaat atatatatat atatatatat atatatatat atatataaat taaaaaggaa	3060
agaaaactaa caaccaacca accaaccaac caaccacaaa ccaccctaaa atgacagccg	3120
ctgatgtctg ggcatcagcc tttgtactct gtttttttaa gaaagtgcag aatcaacttg	3180
aagcaagctt tctctcataa cgtaatgatt atatgacaat cctgaagaaa ccacaggttc	3240
catagaacta atatcctgtc tctctctctc tctctctctc tctctttttt ttttcttttt	3300
ccttttgcca tggaaatctgg gtgggagagg atactgcggg caccagaatg ctaaagtttc	3360
ctaacatttt gaagtttctg tagttcatcc ttaatcctga caccatgta aatgtccaaa	3420
atgttgatct tccactgcaa atttcaaaag ccttgtcaat ggtcaagcgt gcagcttggt	3480
cagcggttct ttctgaggag cggacaccgg gttacattac taatgagagt tgggtagaac	3540
tctctgagat gtgttcagat agtgtaattg ctacattctc tgatgtagtt aagtatttac	3600
agatgttaaa tggagtattt ttattttatg tatatactat acaacaatgt tcttttttgt	3660
tacagctatg cactgtaaatt gcagccttct tttcaaaact gctaaatttt tcttaatcaa	3720
gaatattcaa atgtaattat gaggtgaaac aattattgta cactaacata tttagaagct	3780
gaacttactg cttatatata tttgattgta aaaacaaaaa gacagtgtgt gtgtctgttg	3840
agtgcacaaa gagcaaaatg atgctttccg cacatccatc ccttaggtga gcttcaatct	3900
aagcatcttg tcaagaaata tcctagtccc ctaaagggtat taaccacttc tgcgatattt	3960
ttccacattt tcttgtcgct tgtttttctt tgaagtttta tacactggat ttgttagggg	4020
aatgaaattt tctcatctaa aatttttcta gaagatatca tgattttatg taaagtctct	4080
caatgggtaa ccattaagaa atgtttttat tttctctatc aacagtagtt ttgaaactag	4140
aagtcaaaaa tctttttaaa atgctgtttt gttttaattt ttgtgatttt aatttgatac	4200
aaaatgctga ggtaataatt atagtatgat ttttacaata attaattgtgt gtctgaagac	4260
tatctttgaa gccagtattt cttcccttg gcagagtatg acgatgggat ttatctgtat	4320
tttttacagt tatgcatcct gtataaatac tgatatttca ttcctttgtt tactaaagag	4380
acatatttat cagttgcaga tagcctattt attataaatt atgagatgat gaaaataata	4440

aagccagtgg aaatttttcta cctaggatgc atgacaattg tcagggttga gtgtaagtgc	4500
ttcatttggg aaattcagct tttgcagaag cagtgtttct acttgcacta gcatggcctc	4560
tgacgtgacc atgggtgtgt tcttgatgac attgcttctg ctaaatttaa taaaaacttc	4620
agaaaaacct ccattttgat catcaggatt tcactcgagt gtggagtcctc tggaatggaa	4680
ttcagtaaca tttggagtgt gtattcaagt ttctaaattg agattcgatt actgtttggc	4740
tgacatgact tttctggaag acatgataca cctactactc aattgttctt ttcctttctc	4800
tcgccaaca cgatcttgta agatggattt cccccccagg ccaatgcagc taattttgat	4860
agctgcattc atttatcacc agcatattgt gttctgagtg aatccactgt ttgtcctgtc	4920
ggatgcttgc ttgatttttt ggcttcttat ttctaagtag atagaaagca ataaaaatac	4980
tatgaaatga aagaacttgt tcacaggttc tgcgttacaa cagtaacaca tctttaatcc	5040
gcctaattct tgttgttctg taggttaaatt gcaggattt taactgtgtg aacgccaaac	5100
taaagtttac agtctttctt tctgaatttt gagtatcttc tgttgtagaa taataataaa	5160
aagactatta agagcaataa attattttta agaaatcgag atttagtaaa tcctattatg	5220
tgttcaagga ccacatgtgt tctctatttt gcctttaaat ttttgtgaac caatttttaa	5280
tacattctcc tttttgccct ggattgttga catgagtga atacttggtt tcttttctta	5340
cttatcaaaa gacagcacta cagatatcat attgaggatt aatttatccc ccctaccccc	5400
agcctgacaa atattgttac catgaagata gttttcctca atggacttca aattgcatct	5460
agaattagtg gagcttttgt atcttctgca gacactgtgg gtagcccatc aaaatgtaag	5520
ctgtgctcct ctcatTTTTT tttttatttt tttgggagag aatatttcaa atgaacacgt	5580
gcaccccatc atcactggag gcaaatttca gcatagatct gtaggatttt tagaagaccg	5640
tggggccattg ccttcatgcc gtggtaagta ccacatctac aattttggta accgaactgg	5700
tgcttttagta atgtggattt ttttcttttt taaaagagat gtagcagaat aattcttcca	5760
gtgcaacaaa atcaattttt tgctaaacga ctccgagaac aacagttggg ctgtcaacat	5820
tcaaagcagc agagagggaa ctttgcacta ttgggggtatg atgtttgggt cagttgataa	5880
aaggaaacct tttcatgcct ttagatgtga gcttccagta ggtaatgatt atgtgtcctt	5940
tcttgatggc tgtaatgaga acttcaatca ctgtagtcta agacctgatc tatagatgac	6000
ctagaatagc catgtactat aatgtgatga ttctaaattt gtacctatgt gacagacatt	6060
ttcaataatg tgaactgctg atttgatgga gctactttaa gattttagg tgaaagtga	6120
atactgttgg ttgaactatg ctgaagaggg aaagtgagcg attagttgag cccttgccgg	6180
gccttttttc cacctgccaa ttctacatgt attgttgtgg ttttattcat tgtatgaaaa	6240

ttcctgtgat tttttttaa tgtgcagtag acatcagcct cactgagcta ataaagggaa 6300
 acgaatgttt caaatct 6317

<210> 388
 <211> 6557
 <212> DNA
 <213> Homo sapiens

<400> 388
 agagggcaag gagagagcag agaacacact ttgccttctc tttggtattg agtaatatca 60
 accaaattgc agacatctca acactttggc caggcagcct gctgagcaag gtacctcagc 120
 cagcatggca gcctctttcc caccacactt gggactcagt tctgccccag atgaaattca 180
 gcaccacat attaaatttt cagaatggaa atttaagctg ttccgggtga gatcctttga 240
 aaagacacct gaagaagctc aaaaggaaaa gaaggattcc tttgagggga aaccctctct 300
 ggagcaatct ccagcagtc tggacaaggc tgatgggtcag aagccagtc caactcagcc 360
 attgttaaaa gccacccta agttttcaaa gaaatttcac gacaacgaga aagcaagagg 420
 caaagcgatc catcaagcca accttcgaca tctctgccgc atctgtggga attcttttag 480
 agctgatgag cacaacagga gatatccagt ccatggtcct gtggatggta aaaccctagg 540
 ccttttacga aagaaggaaa agagagctac ttcttgccg gacctcattg ccaagggttt 600
 ccggatcgat gtgaaggcag atgttgactc gatccacccc actgagttct gccataactg 660
 ctggagcatc atgcacagga agtttagcag tgcccatgt gaggtttact tcccaggaa 720
 cgtgaccatg gagtggcacc cccacacacc atcctgtgac atctgcaaca ctgcccgtcg 780
 gggactcaag aggaagagtc ttcagccaaa cttgcagctc agcaaaaaac tcaaaactgt 840
 gcttgacca gcaagacaag cccgtcagcg caagagaaga gctcaggcaa ggatcagcag 900
 caaggatgtc atgaagaaga tcgccaactg cagtaagata catcttagta ccaagctcct 960
 tgcagtggac ttcccagagc actttgtgaa atccatctcc tgccagatct gtgaacacat 1020
 tctggctgac cctgtggaga ccaactgtaa gcatgtcttt tgccgggtct gcattctcag 1080
 atgectcaaa gtcattgggca gctattgtcc ctcttgccga tatccatgct tccctactga 1140
 cctggagagt ccagtgaagt cctttctgag cgtcttgaat tccctgatgg tgaaatgtcc 1200
 agcaaaagag tgcaatgagg aggtcagttt ggaaaaatat aatcaccaca tctcaagtca 1260
 caaggaatca aaagagattt ttgtgcacat taataaaggg ggccggcccc gccaacatct 1320
 tctgtcgtcg actcggagag ctgagaagca cgggctgagg gagctcaagc tgcaagtcaa 1380
 agcctttgct gacaaagaag aagggtggaga tgtgaagtcc gtgtgcatga ccttgttcct 1440
 gctggctctg agggcgagga atgagcacag gcaagctgat gagctggagg ccatcatgca 1500

gggaaagggc	tctggcctgc	agccagctgt	ttgcttggcc	atccgtgtca	acaccttcct	1560
cagctgcagt	cagtaccaca	agatgtacag	gactgtgaaa	gccatcacag	ggagacagat	1620
ttttcagcct	ttgcatgccc	ttcggaatgc	tgagaaggta	cttctgccag	gctaccacca	1680
ctttgagtg	cagccacctc	tgaagaatgt	gtcttccagc	actgatgttg	gcattattga	1740
tgggctgtct	ggactatcat	cctctgtgga	tgattacca	gtggacacca	ttgcaaagag	1800
gttccgctat	gattcagctt	tgggtgtctgc	tttgatggac	atggaagaag	acatcttgga	1860
aggcatgaga	tcccaagacc	ttgatgatta	cctgaatggc	cccttctactg	tgggtggtgaa	1920
ggagtcttgt	gatggaatgg	gagacgtgag	tgagaagcat	gggagtgggc	ctgtagtctc	1980
agaaaaggca	gtccgttttt	cattcacaat	catgaaaatt	actattgccc	acagctctca	2040
gaatgtgaaa	gtatttgaag	aagccaaacc	taactctgaa	ctgtgttgca	agccattgtg	2100
ccttatgctg	gcagatgagt	ctgaccacga	gacgctgact	gccatcctga	gtcctctcat	2160
tgctgagagg	gaggccatga	agagcagtga	attaatgctt	gagctgggag	gcattctccg	2220
gactttcaag	ttcatcttca	ggggcaccgg	ctatgatgaa	aaacttgtgc	gggaagtgga	2280
aggcctcgag	gcttctggct	cagtctacat	ttgtactctt	tgtgatgcca	cccgtctgga	2340
agcctctcaa	aatcttgtct	tccactctat	aaccagaagc	catgctgaga	acctggaacg	2400
ttatgaggtc	tggcgttcca	acccttacca	tgagtctgtg	gaagaactgc	gggatcgggt	2460
gaaaggggtc	tcagctaaac	ctttcattga	gacagtccct	tccatagatg	cactccactg	2520
tgacattggc	aatgcagctg	agttctacaa	gatcttccag	ctagagatag	gggaagtgta	2580
taagaatccc	aatgcttcca	aagaggaaag	gaaaagggtg	caggccacac	tggacaagca	2640
tctccggaag	aagatgaacc	tcaaaccaat	catgaggatg	aatggcaact	ttgccaggaa	2700
gctcatgacc	aaagagactg	tggatgcagt	ttgtgagtta	attccttccg	aggagaggca	2760
cgaggctctg	agggagctga	tggatcttta	cctgaagatg	aaaccagtat	ggcgatcatc	2820
atgccctgct	aaagagtgcc	cagaatccct	ctgccagtac	agtttcaatt	cacagcgttt	2880
tgctgagctc	ctttctacga	agttcaagta	taggtatgag	ggaaaaatca	ccaattattt	2940
tcacaaaacc	ctggcccatg	ttcctgaaat	tattgagagg	gatggctcca	ttggggcatg	3000
ggcaagtgag	ggaaatgagt	ctggtaacaa	actgtttagg	cgcttccgga	aatgaatgc	3060
caggcagtc	aaatgctatg	agatggaaga	tgtcctgaaa	caccactggg	tgtacacctc	3120
caaatacctc	cagaagttta	tgaatgctca	taatgcatta	aaaacctctg	ggtttaccat	3180
gaaccctcag	gcaagcttag	gggacccatt	aggcatagag	gactctctgg	aaagccaaga	3240
ttcaatggaa	ttttaagtag	ggcaaccact	tatgagttgg	tttttgcaat	tgagtttccc	3300
tctgggttgc	attgagggct	tctcctagca	ccctttactg	ctgtgtatgg	ggcttcacca	3360

tccaagaggt ggtaggttgg agtaagatgc tacagatgct ctcaagtcag gaatagaaac	3420
tgatgagctg attgcttgag gcttttagtg agttccgaaa agcaacagga aaaatcagtt	3480
atctgaaagc tcagtaactc agaacaggag taactgcagg ggaccagaga tgagcaaaga	3540
tctgtgtgtg ttggggagct gtcattgtaa tcaaagccaa ggttggtcaa gaacagccag	3600
tgaggccaga aattgggtctt gtgggttttca tttttttccc ccttgattga ttatatattt	3660
tattgagata tgataagtgc cttctatttc atttttgaat aattcttcat ttttataatt	3720
ttacatatct tggcttgcta tataagattc aaaagagctt tttaaatttt tctaataata	3780
tcttacattt gtacagcatg atgaccttta caaagtgtc tcaatgcatt taccattcg	3840
ttatataaat atgttacatc aggacaactt tgagaaaatc agtccttttt tatgttttaa	3900
ttatgtatct attgtaacct tcagagttaa ggaggtcatc tgctgtcatg gatttttcaa	3960
taatgaattt agaatacacc tgtagctac agtagttat taaatcttct gataatatat	4020
gtttacttag ctatcagaag ccaagtatga ttctttattt ttactttttc atttcaagaa	4080
atttagagtt tccaaattta gagcttctgc atacagtctt aaagccacag aggcttgtaa	4140
aaatataggt tagcttgatg tctaaaaata tatttcatgt cttactgaaa cattttgcc	4200
gactttctcc aaatgaaacc tgaatcaatt tttctaaatc taggtttcat agagtcctct	4260
cctctgcaat gtgttattct ttctataatg atcagtttac tttcagtggg ttcagaattg	4320
tgtagcagga taaccttgta tttttccatc cgctaagttt agatggagtc caaacgcagt	4380
acagcagaag agttaacatt tacacagtgc tttttaccac tgtggaatgt tttcacactc	4440
atttttctct acaacaattc tgaggagtag gtgttggtat tatctccatt tgatgggggt	4500
ttaatgattt gctcaaagtc atttaggggt aataaatact tggcttgga atttaacaca	4560
gtccttttgt ctccaaagcc cttcttcttt ccaccacaaa ttaatcacta tgtttataag	4620
gtagtatcag aattttttta ggattcacia ctaatcacta tagcacatga ccttgggatt	4680
acatttttat ggggcagggg taagcggctt ttaaatacatt tgtgtgctct ggctcttttg	4740
atagaagaaa gcaacacaaa agctccaaag ggccccctaa ccctcttggt gctccagtta	4800
tttgaaaact atgatctgca tccttaggaa tctgggattt gccagttgct ggcaatgtag	4860
agcaggcatg gaattttata tgctagttag tcataatgat atgttagtgt taattagttt	4920
ttcttctttt gattttattg gccataattg ctactcttca tacacagtat atcaaagagc	4980
ttgataattt agttgtcaa agtgcacgg cgacattatc tttaattgta tgtatttgggt	5040
gcttcttcag ggattgaaact cagtatcttt cattaaaaaa cacagcagtt ttccttgctt	5100
tttatatgca gaatatcaaa gtcatttcta atttagttgt caaaaacata tacatatattt	5160

aacattagtt tttttgaaaa ctcttggttt tgtttttttg gaaatgagtg ggccactaag 5220
 ccacactttc ccttcacctt gcttaatcct tccagcatgt ctctgcacta ataaacagct 5280
 aaattcacat aatcactcta tttactgaag catgggtcatg ctgggtttata gatttttttac 5340
 ccattttctac tctttttctc tattgggtggc actgtaaata ctttccagta ttaaattatc 5400
 cttttctaac actgtaggaa ctattttgaa tgcattgtgac taagagcatg atttatagca 5460
 caacctttcc aataatccct taatcagatc acattttgat aaaccttggg aacatctggc 5520
 tgcaggaatt tcaatatgta gaaacgctgc ctatgggtttt ttgcccttac tgttgagact 5580
 gcaatatacct agaccctagt tttatactag agttttatct ttagcaatgc ctattgcaag 5640
 tgcaattata tactccaggg aaattcacca cactgaatcg agcattttgtg tgtgtatgtg 5700
 tgaagtatat ctgggacttc agaagtgcaa tgtatttttc tctgtgaaa cctgaatcta 5760
 caagttttct gccaaaccac tcaggtgcat tgcagggacc agtgataatg gctgatgaaa 5820
 attgatgatt ggtcagtgag gtcaaaagga gccttgggat taataaacat gcactgagaa 5880
 gcaagaggag gagaaaaaga tgtctttttc ttccaggtga actggaattt agttttgcct 5940
 cagatttttt tcccacaaga tacagaagaa gataaagatt tttttggttg agagtgtggg 6000
 tcttgcatca catcaaacag agttcaaatt ccacacagat aagaggcagg atatataagc 6060
 gccagtggta gttgggagga ataaaccatt atttggtatgc aggtgggtttt tgattgcaaa 6120
 tatgtgtgtg tcttcagtga ttgtatgaca gatgatgtat tcttttgatg ttaaaagatt 6180
 ttaagtaaga gtagatacat tgtaccatt ttacattttc ttattttaac tacagtaatc 6240
 tacataaata tacctcagaa atcatttttg gtgattattt tttgttttgt agaattgcac 6300
 ttcagtttat tttcttacia ataaccttac attttgttta atggcttcca agagcctttt 6360
 tttttttgta tttcagagaa aattcaggta ccaggatgca atggatttat ttgattcagg 6420
 ggacctgtat ttccatgtca aatgttttca aataaaatga aatatgagtt tcaatacttt 6480
 ttatatttta atatttcctt aatattatgg ttattgtccg ccattttgtt gtatattgta 6540
 aataaagttt agattgt 6557

<210> 389
 <211> 2414
 <212> DNA
 <213> Homo sapiens

<400> 389
 actctcttta cagtcagcct tctgcttgcc acagtcatag tgggcagtca gtgaatcttc 60
 cccaagtgtc gacaattaat acctgggttta gcggcaaaga ttcagagagg cgtgagcagc 120
 ccctctggcc ttcagacaaa aatctacgta ccatcagaaa ctatgtctct gcagatggta 180

acagtcagta ataacatagc ctttaattcag ccaggcttct cactgatgaa ttttgatgga	240
caagttttct tcttttgaca aaaaggctgg cccaaaagat cctgccccac tggagttttc	300
catctggatg taaagcataa ccatgtcaaa ctgaagccta caattttctc taaggattcc	360
tgctacctcc ctctctctcg ctaccagcc acttgacat tcaaaggcag cttggagtct	420
gaaaagcatc aatacatcat ccatggaggg aaaacaccaa acaatgaggt ttcagataag	480
atztatgtca tgtctattgt ttgcaagaac aacaaaaagg ttacttttcg ctgcacagag	540
aaagacttgg taggagatgt tcctgaagcc agatatggtc attccattaa tgtggtgtac	600
agccgagggg aaagtatggg tgctctcttt ggaggacgct catacatgcc ttctaccac	660
agaaccacag aaaaatggaa tagtgtagct gactgcctgc cctgtgtttt cctggtggat	720
tttgaatttg ggtgtgtctac atcatacatt cttccagaac ttcaggatgg gctatctttt	780
catgtctcta ttgccaaaaa tgacaccatc tatattttag gaggacattc acttgccaat	840
aatatccggc ctgccaaact gtacagaata agggttgatc ttcccctggg tagcccagct	900
gtgaattgca cagtcttgcc aggaggaatc tctgtctcca gtgcaatcct gactcaaact	960
aacaatgatg aatttgttat tgttgggtggc tatcagcttg aaaatcaaaa aagaatgatc	1020
tgcaacatca tctctttaga ggacaacaag atagaaattc gtgagatgga gaccccagat	1080
tggaccccag acattaagca cagcaagata tggtttgga gcaacacggg aaatggaact	1140
gtttttcttg gcataccagg agacaataaa caagttgttt cagaaggatt ctatttctat	1200
atggtgaaat gtgctgaaga tgatactaata gaagagcaga caacattcac aaacagtcaa	1260
acatcaacag aagatccagg ggattccact ccctttgaag actctgaaga attttgtttc	1320
agtgcagaag caaatagttt tgatggtgat gatgaatttg acacctataa tgaagatgat	1380
gaagaagatg agtctgagac aggctactgg attacatgct gccctacttg tgatgtggat	1440
atcaacactt gggtagcatt ctattcaact gagctcaaca aaccgcctat gatctactgc	1500
tctcatgggg atgggcactg ggtccatgct cagtgcattg atctggcaga acgcacactc	1560
atccatctgt cagcaggaag caacaagtat tactgcaatg agcatgtgga gatagcaaga	1620
gctctacaca ctccccaaag agtcctaccc ttaaaaaagc ctccaatgaa atccctccgt	1680
aaaaaagggt ctggaaaaat cttgactcct gccagaat cctttcttag aagggtgttt	1740
gattagtttt gcaaaagcct ttcagattca ggtgtatgga atttttgaat ctatttttaa	1800
aatcataaca ttgattttta aaatacattt ttgtttattt aaaatgccta tgttttcttt	1860
tagttacatg aattaagggc cagaaaaaag tgtttataat gcaatgataa ataaagtcac	1920
tctagaccct atacattttt aaaatatttt acccaaatac tcaatttact aattttattc	1980
tcactgagga tttctgatct gattttttat tcaacaacc ttaaacaccc agaagcagta	2040

ataatcatcg aggtatgttt atatttatta tatgagtctt ggtaacaaat aacctataaa	2100
gtgtttatga caaatttagc caataaagaa attaacaccc aaaagaatta aattgattat	2160
tttgtgcaac ataacaattc ggcagttggc caaaacttaa aagcaagatc tactacatcc	2220
cacattagtg ttctttatat accttcaagc aaccctttgg attatgccca tgaacaagtt	2280
agttttctcat agcttttacag atgtagatat aaatataaat atatgtatac atatagatag	2340
ataatgttct ccactgacac aaaagaagaa ataaataatc tacatcaaaa aaaaaaaaaa	2400
aaaaaaaaaa aaaa	2414

<210> 390
 <211> 3524
 <212> DNA
 <213> Homo sapiens

<400> 390	
tctccgtcag ccgcattgcc cgctcggcgt ccggcccccg acccgtgctc gtccgccccgc	60
ccgccccgcc gcccgcgcca tgaacgcca ggctcgtggc gtgctggctc tcgtgctgac	120
cgcgctctgc ctcagcgacg ggaagcccgt cagcctgagc tacagatgcc catgccgatt	180
cttcgaaagc catgttgcca gagccaacgt caagcatctc aaaattctca aactccaaa	240
ctgtgccctt cagattgtag cccggtgaa gaacaacaac agacaagtgt gcattgaccc	300
gaagctaaag tggattcagg agtacctgga gaaagcttta aacaagagg tcaagatgtg	360
agagggtcag acgcctgagg aacccttaca gtaggagccc agctctgaaa ccagtgttag	420
ggaagggcct gccacagcct cccctgccag ggcagggccc caggcattgc caagggcttt	480
gttttgca ca ttttgccata ttttcacat ttgattatgt agcaaaatac atgacattta	540
tttttcattt agtttgatta ttcagtgtca ctggcgacac gtagcagctt agactaaggc	600
cattattgta cttgccttat tagagtgtct ttccacggag ccactcctct gactcagggc	660
tcctgggttt tgtattctct gagctgtgca ggtggggaga ctgggctgag ggagcctggc	720
cccatgggta gccctagggg ggagagccac caagagggac gcctgggggt gccaggacca	780
gtcaacctgg gcaaagccta gtgaaggctt ctctctgtgg gatgggatgg tggagggcca	840
catgggaggg tcacccctt ctccatccac atgggagccg ggtctgcctc ttctgggagg	900
gcagcagggc taccctgagc tgaggcagca gtgtgaggcc agggcagagt gagaccagc	960
cctcatcccg agcacctcca catcctccac gttctgctca tcattctctg tctcatccat	1020
catcatgtgt gtccacgact gtctccatgg ccccgcaaaa ggactctcag gaccaaagct	1080
ttcatgtaaa ctgtgcacca agcaggaaat gaaaatgtct tgtgttacct gaaaacactg	1140
tgcacatctg tgtcttgtgt ggaatattgt ccattgtcca atcctatgtt tttgttcaaa	1200

gccagcgctcc	tcctctgtga	ccaatgtctt	gatgcatgca	ctgttcccc	tgtgcagccg	1260
ctgagcgagg	agatgtctct	tgggcccttt	gagtgcagtc	ctgatcagag	ccgtgggtcct	1320
ttgggggtgaa	ctaccttggt	tccccactg	atcacaaaa	catgggtgggt	ccatgggcag	1380
agcccaaggg	aattcgggtg	gcaccaggg	tgacccaga	ggattgctgc	cccatcagtg	1440
ctccctcaca	tgtcagtacc	ttcaaactag	ggccaagccc	agcactgctt	gaggaaaaca	1500
agcattcaca	acttggtttt	ggtttttaaa	accagtgcca	caaaataacc	aatcctggac	1560
atgaagattc	tttcccaatt	cacatctaac	ctcatcttct	tcaccatttg	gcaatgccat	1620
catctcctgc	cttcctcctg	ggccctctct	gctctgcgtg	tcacctgtgc	ttcgggccct	1680
tcccacagga	catttctcta	agagaacaat	gtgctatgtg	aagagtaagt	caacctgcct	1740
gacatttgga	gtgttcccc	cccactgagg	gcagtcgata	gagctgtatt	aagccactta	1800
aaatgttcac	ttttgacaaa	ggcaagcact	tgtgggtttt	tgttttgttt	ttcattcagt	1860
cttacgaata	cttttgccct	ttgattaaag	actccagtta	aaaaaaattt	taatgaagaa	1920
agtggaaaac	aaggaagtca	aagcaaggaa	actatgtaac	atgtaggaag	taggaagtaa	1980
attatagtga	tgtaatcttg	aattgtaact	gttcgtgaat	ttaataatct	gtagggtaat	2040
tagtaacatg	tgттаagtat	tttcataagt	atttcaaatt	ggagcttcat	ggcagaaggc	2100
aaacccatca	acaaaaattg	tcccttaaac	aaaaattaaa	atcctcaatc	cagctatgtt	2160
atattgaaaa	aatagagcct	gagggatctt	tactagttat	aaagatacag	aactctttca	2220
aaaccttttg	aaattaacct	ctcactatac	cagtataatt	gagttttcag	tggggcagtc	2280
attatccagg	taatccaaga	tatttttaaaa	tctgtcacgt	agaacttgga	tgtacctgcc	2340
ccaatccat	gaaccaagac	cattgaattc	ttgggtgagg	aaacaaacat	gaccctaaat	2400
cttgactaca	gtcaggaaag	gaatcatttc	tatttctcct	ccatgggaga	aaatagataa	2460
gagtagaaac	tgaggggaaa	attatttgca	taacaattcc	tctactaaca	atcagctcct	2520
tcctgggagac	tgcccagcta	aagcaatatg	cattttaaata	cagtcttcca	tttgcaagggt	2580
aaaagtctct	tgtaatccga	atctcttttt	gctttcgaac	tgctagtcaa	gtgcgtccac	2640
gagctgttta	ctagggatcc	ctcatctgtc	cctccgggac	ctgggtgctgc	ctctacctga	2700
cactcccttg	ggctccctgt	aacctcttca	gaggccctcg	ctgccagctc	tgtatcagga	2760
cccagaggaa	ggggccagag	gctcgttgac	tggctgtgtg	ttgggattga	gtctgtgccca	2820
cgtgtatgtg	ctgtgggtgtg	tccccctctg	tccaggcact	gagataccag	cgaggaggct	2880
ccagagggca	ctctgcttgt	tattagagat	tacctcctga	gaaaaaagct	tccgcttgga	2940
gcagaggggc	tgaatagcag	aagggtgcac	ctcccccaac	cttagatgtt	ctaagtcttt	3000

ccattggatc tcattggacc cttccatggg gtgatcgctc gactgggtgtt atcacccgtgg 3060
gctccctgac tgggagttga tcgcctttcc caggtgctac acccttttcc agctggatga 3120
gaatttgagt gctctgatcc ctctacagag cttccctgac tcattctgaa ggagcccat 3180
tcctgggaaa tattccctag aaacttccaa atcccctaag cagaccactg ataaaaccat 3240
gtagaaaatt tgttattttg caacctcgct ggactctcag tctctgagca gtgaatgatt 3300
cagtgttaaa tgtgatgaat actgtatttt gtattgtttc aagtgcattc cccagataat 3360
gtgaaaatgg tccaggagaa ggccaattcc tatacgcagc gtgctttaa aaataaataa 3420
gaaacaactc ttgagaaac aacaatttct actttgaagt cataccaatg aaaaaatgta 3480
tatgcactta taattttcct aataaagttc tgtactcaaa tgta 3524

<210> 391
<211> 1084
<212> DNA
<213> Homo sapiens

<400> 391
cgaggatgtg cgtgggggct cggcggctgg gccgcgggccc gtgtgcggct ctgctcctcc 60
tgggcctggg gctgagcacc gtgacggggc tccactgtgt cggggacacc taccacagca 120
acgaccggtg ctgccacgag tgcaggccag gcaacgggat ggtgagccgc tgcagccgct 180
cccagaacac ggtgtgccgt ccgtgcgggc cgggcttcta caacgacgtg gtcagctcca 240
agccgtgcaa gccctgcacg tgggtgaacc tcagaagtgg gagtgagcgg aagcagctgt 300
gcacggccac acaggacaca gtctgccgct gccggggcggg caccagccc ctggacagct 360
acaagcctgg agttgactgt gccccctgcc ctccagggca cttctcccca ggcgacaacc 420
aggcctgcaa gccctggacc aactgcacct tggctgggaa gcacaccctg cagccggcca 480
gcaatagctc ggacgcaatc tgtgaggaca gggaccccc agccacgcag cccagggaga 540
cccagggccc cccggccagg cccatcactg tccagcccac tgaagcctgg cccagaacct 600
cacagggacc ctccaccccg cccgtggagg tccccggggg ccgtgcgggt gccgccatcc 660
tgggcctggg cctggtgctg gggctgctgg gccccctggc catcctgctg gccctgtacc 720
tgctccggag ggaccagagg ctgccccccg atgccacaa gccccctggg ggaggcagtt 780
tccggacccc catccaagag gagcaggccg acgcccactc caccctggcc aagatctgac 840
ctgggcccac caaggtggac gctgggcccc gccaggctgg agcccgagg gtctgctggg 900
cgagcagggc aggtgcaggc cgcctgcccc gccacgctcc tgggccaact ctgcaccgtt 960
ctaggtgccg atggctgcct ccggctctct gcttacgtat gccatgcata cctcctgccc 1020
cgcgggacca caataaaaac cttggcagac gggagtctcc gaccggcaaa aaaaaaaaaa 1080

aaaa

1084

<210> 392
 <211> 3510
 <212> DNA
 <213> Homo sapiens

<400> 392
 tcaatcgctt tttatctctg gccctgggac ctttgcctat tttctgattg ataggctttg 60
 ttttgtcttt acctccttct ttctggggaa aacttcagtt ttatcgcacg tccccctttt 120
 ccatatcttc atcttccctc taccagatt gtgaagatgg aaaggtcca acccctggaa 180
 gagaatgtgg gaaatgcagc caggccaaga ttcgagagga acaagctatt gctgggtggc 240
 tctgtaattc agggactggg gctgctcctg tgcttcacct acatctgcct gcacttctct 300
 gctcttcagg tatcacatcg gtatcctcga attcaaagta tcaaagtaca atttaccgaa 360
 tataagaagg agaaagggtt catcctcact tcccaaaagg aggatgaaat catgaagggtg 420
 cagaacaact cagtcatcat caactgtgat gggttttatc tcctctccct gaagggctac 480
 ttctcccagg aagtcaacat tagccttcat taccagaagg atgaggagcc cctcttccaa 540
 ctgaagaagg tcagggtctgt caactccttg atggtggcct ctctgactta caaagacaaa 600
 gtctacttga atgtgaccac tgacaatacc tccctggatg acttccatgt gaatggcgga 660
 gaactgattc ttatccatca aaatcctggt gaattctgtg tcctttgagg ggctgatggc 720
 aatatctaaa accaggcacc agcatgaaca ccaagctggg ggtggacagg gcatggattc 780
 ttcattgcaa gtgaaggagc ctcccagctc agccacgtgg gatgtgacaa gaagcagatc 840
 ctggccctcc cgccccacc cctcagggat atttaaaact tattttatat accagttaat 900
 cttattttatc cttatatttt ctaaattgcc tagccgtcac accccaagat tgccttgagc 960
 ctactaggca cctttgtgag aaagaaaaaa tagatgcctc ttcttcaaga tgcattgttt 1020
 ctattggtca ggcaattgtc ataataaact tatgtcattg aaaacggtac ctgactacca 1080
 tttgctggaa atttgacatg tgtgtggcat tatcaaaatg aagaggagca aggagtgaag 1140
 gagtgggggt atgaatctgc caaagggtgt atgaaccaac ccttgggaagc caaagcggcc 1200
 tctccaaggt taaattgatt gcagtttgca tattgcctaa atttaaactt tctcatttgg 1260
 tgggggttca aaagaagaat cagcttgtga aaaatcagga cttgaagaga gccgtctaag 1320
 aaataccacg tgcttttttt ctttaccatt ttgctttccc agcctccaaa catagttaat 1380
 agaaatttcc cttcaaagaa ctgtctgggg atgtgatgct ttgaaaaatc taatcagtga 1440
 cttgaagagag attttcttgt atacagggag agtgagataa cttattgtga agggttagct 1500
 ttactgtaca ggatagcagg gaactggaca tctcagggtg aaagtcagta cggattttta 1560

tagcctgggg	aggaaaacac	attctttgcc	acagacaggc	aaagcaacac	atgctcatcc	1620
tcctgcctat	gctgagatac	gcactcagct	ccatgtcttg	tacacacaga	aacattgctg	1680
gtttcaagaa	atgaggtgat	cctattatca	aattcaatct	gatgtcaa	atagcactaaga	1740
agttattgtg	ccttatgaaa	aataatgatc	tctgtctaga	aataccatag	accatatata	1800
gtctcacatt	gataattgaa	actagaaggg	tctaataatca	gcctatgcca	gggcttcaat	1860
ggaatagtat	ccccttatgt	ttagttgaaa	tgtcccctta	acttgatata	atgtgttatg	1920
cttatggcgc	tgtggacaat	ctgatttttc	atgtcaactt	tccagatgat	ttgtaacttc	1980
tctgtgccaa	acctttttata	aacataaatt	tttgagatat	gtattttaaa	attgtagcac	2040
atgtttccct	gacattttca	atagaggata	caacatcaca	gaatctttct	ggatgattct	2100
gtgttatcaa	ggaattgtac	tgtgctacaa	ttatctctag	aatctccaga	aagggtggagg	2160
gctgttcgcc	cttacctaa	atggctctcag	ttggattttt	ttttcctggt	ttctattttcc	2220
tcttaagtac	accttcaact	atattcccat	ccctctattt	taatctgtta	tgaaggaagg	2280
taaataaaaa	tgctaaatag	aagaaattgt	aggtaaggta	agaggaatca	agttctgagt	2340
ggctgccaa	gcactcacag	aatcataatc	atggctaaat	atztatggag	ggcctactgt	2400
ggaccaggca	ctgggctaaa	tacttacatt	tacaagaatc	attctgagac	agatattcaa	2460
tgatatctgg	cttcactact	cagaagattg	tgtgtgtgtt	tgtgtgtgtg	tgtgtgtgtg	2520
tatttcactt	tttggtattg	accatgttct	gcaaaattgc	agttactcag	tgagtgatat	2580
cggaaaaagt	aaacgtttat	gactataggt	aatatttaag	aaaatgcatg	gttcattttt	2640
aagtttgga	tttttatcta	tatttctcac	agatgtgcag	tgcacatgca	ggcctaagta	2700
tatgttgtgt	gtgtgtttg	tctttgatgt	catgggtccc	tctcttaggt	gctcactcgc	2760
tttgggtgca	cctggcctgc	tcttcccatg	ttggcctctg	caaccacaca	gggatatttc	2820
tgctatgcac	cagcctcact	ccaccttcct	tccatcaaaa	atatgtgtgt	gtgtctcagt	2880
ccctgtaagt	catgtccttc	acagggagaa	ttaacccttc	gatatacatg	gcagagtttt	2940
gtgggaaaag	aattgaatga	aaagtcagga	gatcagaatt	ttaaatttga	cttagccact	3000
aactagccat	gtaaccttgg	gaaagtcatt	tcccatttct	gggtcttgct	tttctttctg	3060
ttaaatagaga	ggaatgttaa	atatctaaca	gtttagaatc	ttatgcttac	agtgttatct	3120
gtgaatgcac	atattaaatg	tctatgttct	tgttgctatg	agtcaaggag	tgtaaccttc	3180
tcctttacta	tgttgaatgt	atTTTTTct	ggacaagctt	acatcttcct	cagccatctt	3240
tgtgagtcct	tcaagagcag	ttatcaattg	ttagttagat	atTTTctatt	tagagaatgc	3300
ttaagggatt	ccaatcccg	tccaaatcat	aatttgttct	taagtatact	gggcagggtcc	3360
cctattttta	gtcataattt	tgtatttagt	gctttcctgg	ctctcagaga	gtattaatat	3420

tgatattaat aatatagtta atagtaatat tgctatttac atggaaacaa ataaaagatc 3480
 tcagaattca ctaaaaaaaaa aaaaaaaaaa 3510

<210> 393
 <211> 1158
 <212> DNA
 <213> Homo sapiens

<400> 393
 ggaattccgt ggccaggatg ctgagcctgc tgctgctggc gctgcccgtc ctggcgagcc 60
 gcgcctacgc ggcccctgcc ccagtccagg ccctgcagca agcgggtatc gtcgggggtc 120
 aggaggcccc caggagcaag tggccctggc aggtgagcct gagagtccgc gaccgatact 180
 ggatgcactt ctgcgggggc tccctcatcc acccccagtg ggtgctgacc gcggcgcaact 240
 gcctgggacc ggacgtcaag gatctggcca ccctcagggt gcaactgcgg gagcagcacc 300
 tctactacca ggaccagctg ctgccagtca gcaggatcat cgtgcaccca cagttctaca 360
 tcatccagac tggagcggat atcgccctgc tggagctgga ggagcccgtg aacatctcca 420
 gccgcgtcca cacggtcatg ctgccccctg cctcggagac ctcccccccg gggatgccgt 480
 gctgggtcac tggctggggc gatgtggaca atgatgagcc cctcccaccg ccatttcccc 540
 tgaagcaggt gaaggtcccc ataatggaaa accacatttg tgacgcaaaa taccaccttg 600
 gcgcctacac gggagacgac gtccgcatca tccgtgacga catgctgtgt gccgggaaca 660
 gccagagggga ctctgcaag ggcgactctg gagggcccct ggtgtgcaag gtgaatggca 720
 cctggctaca ggcgggctg gtcagctggg acgagggtg tgcccagccc aaccggcctg 780
 gcatctacac ccgtgtcacc tactacttgg actggatcca ccactatgtc ccaaaaaagc 840
 cgtgagtcag gcctgggtgt gccacctggg tcaactggagg accaaccctt gctgtccaaa 900
 acaccactgc ttcctaccca ggtggcgact gccccccaca ccttccctgc cccgtcctga 960
 gtgccccttc ctgtcctaag ccccctgctc tcttctgagc cccttcccct gtccctgagga 1020
 cccttcccca tcctgagccc ccttccctgt cctaagcctg acgectgcac tgggccctcc 1080
 ggccctcccc tgcccaggca gctggtggtg ggcgctaata ctctgagtg ctggacctca 1140
 ttaaagtgca tggaaatc 1158

<210> 394
 <211> 1497
 <212> DNA
 <213> Homo sapiens

<400> 394
 accgctggcc ccagggaaag ccgagcggcc accgagccgg cagagaccca ccgagcggcg 60

gcggagggag cagcgccggg gcgcacgagg gcacccatggc ccagacgccc gccttcgaca 120
 agcccaaagt agaactgcat gtccacctag acggatccat caagcctgaa accatcttat 180
 actatggcag gaggagaggg atcgccctcc cagctaacac agcagagggg ctgctgaacg 240
 tcattggcat ggacaagccg ctcacccttc cagacttcct ggccaaattt gactactaca 300
 tgcttgctat cgcgggctgc cgggaggcta tcaaaaggat cgcctatgag tttgtagaga 360
 tgaaggccaa agagggcgtg gtgtatgtgg aggtgcggtg cagtccgcac ctgctggcca 420
 actccaaagt ggagccaatc ccctggaacc aggtggaagg ggacctcacc ccagacgagg 480
 tgggtggcct agtgggccag ggctgcagg agggggagcg agacttcggg gtcaaggccc 540
 ggtccatcct gtgctgcatg cgccaccagc ccaactggtc cccaagggtg gtggagctgt 600
 gtaagaacta ccagcagcag accgtggtag ccattgacct ggctggagat gagaccatcc 660
 caggaagcag cctcttgctt ggacatgtcc aggcctacca ggaggctgtg aagagcggca 720
 ttcaccgtac tgtccacgcc ggggaggtgg gctcggccga agtagtaaaa gaggctgtgg 780
 acataactca gacagagcgg ctgggacacg gctaccacac cctggaagac caggcccttt 840
 ataacaggct gcggcaggaa aacatgcact tcgagatctg ccctgggtcc agctacctca 900
 ctggtgcctg gaagccggac acggagcatg cagtcattcg gctcaaaaat gaccaggcta 960
 actactcgct caacacagat gaccgctca tcttcaagtc caccctggac actgattacc 1020
 agatgaccaa acgggacatg ggctttactg aagaggagtt taaaaggctg aacatcaatg 1080
 cggccaaatc tagtttcctc ccagaagatg aaaagaggga gcttctcgac ctgctctata 1140
 aagcctatgg gatgccacct tcagcctctg cagggcagaa cctctgaaga cgccactcct 1200
 ccaagccttc accctgtgga gtcaccccaa ctctgtgggg ctgagcaaca tttttacatt 1260
 tattccttcc aagaagacca tgatctcaat agtcagttac tgatgctcct gaaccctatg 1320
 tgtccatttc tgcacacacg tatacctcgg catggccgcg tcaattctct gattatgtgc 1380
 cctggcaggg accagcggcc ttgcacatgg gcatgggtga atctgaaacc ctcttctgt 1440
 ggcaacttgt actgaaaatc tgggtgctcaa taaagaagcc catggctggt ggcatgc 1497

<210> 395
 <211> 2085
 <212> DNA
 <213> Homo sapiens

<400> 395
 gcattttcttc cttctgcgta tgggacagga ccctttcttg aatgggggtc ttatgaccta 60
 caatcaaaca agaacatgga cttcccgctg ctctggctag ggctgttgct gcctttggta 120
 gctgcgctgg atttcaacta ccaccgccag gaagggatgg aagcgttttt gaagactggt 180

gccccaaact acagttctgt cactcactta cacagtattg ggaaatctgt gaaaggtaga	240
aacctgtggg ttcttggtgt ggggcgggtt ccaaaggaac acagaattgg gattccagag	300
ttcaaatacg tggcaaatat gcatggagat gagactgttg ggcgggagct gctgctccat	360
ctgattgact atctcgtaac cagtgatggc aaagaccctg aaatcacaaa tctgatcaat	420
agtacccgga tacacatcat gccttccatg aaccagatg gatttgaagc cgtcaaaaag	480
cctgactggt actacagcat cggaagggaa aattataacc agtatgactt gaatcgaaat	540
ttccccgatg cttttgaata taataatgtc tcaaggcagc ctgaaactgt ggcagtcatg	600
aagtggctga aaacagagac gtttgtcctc tctgcaaacc tccatgggtg tgcctctgtg	660
gccagttacc catttgataa tgggtgtcaa gcaactgggg cattatactc ccgaagctta	720
acgcctgatg atgatgtttt tcaatatctt gcacatacct atgcttcaag aaatcccaac	780
atgaagaaag gagacgagtg taaaaacaaa atgaactttc ctaatgggtg tacaaatgga	840
tactcttggt atccactcca aggtggaatg caagattaca actacatctg ggcccagtgt	900
tttgaaatta cgttggagct gtcattgtgt aaatatcctc gtgaggagaa gcttccatcc	960
ttttggaata ataacaaagc ctcatataat gaatatataa agcagggtgca cctaggtgta	1020
aagggtcaag tttttgatca gaatggaaat ccattacca atgtaattgt ggaagtccaa	1080
gacagaaaac atatctgccc ctatagaacc acaaatatg gagagtatta tctccttctc	1140
ttgcctgggt cttatattat aaatgttaca gtccctggac atgatccaca catcacaaag	1200
gtgattattc cggagaaatc ccagaacttc agtgctctta aaaaggatat tctacttcca	1260
ttccaagggc aattggattc tatcccagta tcaaactcct catgcccatt gattcctcta	1320
tacagaaatt tgccagacca ctgagctgca acaaagccta gtttggttctt attttttagtg	1380
agtcttttgc acatattctt caaataaagt aaaatgtgaa actcaaccca catcaccacc	1440
tggaatcagg gattgctcac tccaggttac tgcaacccta actcactcta gtgggacctt	1500
gactggagaa actccacgat cttcctgaag aagagaaatg gatgtttcca aattccacaa	1560
taagcaatat gtggtgataa tgaaaagaat gattcagttc tgacggtgaa tggaagacac	1620
ttacctaaac agtactgctc atttacactc aaattaatct tgaagtagtc ttaaaatgtg	1680
taagaagtta aaacttgaga agcaaaaaat gcctgcaaaa agaagatcat tttgtatata	1740
gagaaccgga tgaatataag caatgaagat gaacatttat tgatcttcta catacaagac	1800
ttcaccataa ggccaggagc agtgctcacg ccttgtaatc ccagcacttt gggaggccaa	1860
ggtgggcgga tcaccttgag gtcaggagtt caagaccagc ctgaccaaca tggtgaaacc	1920
ctgtctctac taaatattag cgggggtgtg tggcgggcac ctgtagtcgc agcctttcgg	1980
gaggctgaga caggagaatc gcttgaaccc tagaggcgga gtttgcagtg agccgagata	2040

gtgccattgt actccagctt gggcaacaga gtaagactct gtctc 2085

<210> 396
 <211> 781
 <212> DNA
 <213> Homo sapiens

<400> 396
 acacagagag aaaggctaaa gttctctgga ggatgtggct gcagagcctg ctgctcttgg 60
 gcactgtggc ctgcagcatc tctgcacccg cccgctcgcc cagccccagc acgcagccct 120
 gggagcatgt gaatgccatc caggaggccc ggcgtctcct gaacctgagt agagacactg 180
 ctgctgagat gaatgaaaca gtagaagtca tctcagaaat gtttgacctc caggagccga 240
 cctgcctaca gaccgcctg gagctgtaca agcagggcct gcggggcagc ctcaccaagc 300
 tcaaggggcc cttgaccatg atggccagcc actacaagca gcactgccct ccaaccccgg 360
 aaacttcttg tgcaaccagc attatcacct ttgaaagttt caaagagaac ctgaaggact 420
 ttctgcttgt catecccttt gactgctggg agccagtcca ggagtgcagc cggccagatg 480
 aggctggcca agccggggag ctgctctctc atgaaacaag agctagaaac tcaggatggc 540
 catcttggag ggaccaaggg gtggggccaca gccatgggtg gagtggcctg gacctgccct 600
 gggccacact gacctgata caggcatggc agaagaatgg gaatatattta tactgcagca 660
 aatcagtaat atttatatat ttatatatttt aaaatatatta tttatttatt tatttaagtt 720
 catattccat atttattcaa gatgttttac cgtaataatt attattaaaa atatgcttct 780
 a 781

<210> 397
 <211> 1509
 <212> DNA
 <213> Homo sapiens

<400> 397
 aaaacagccc ggagcctgca gcccagcccc acccagaccc atggctggac ctgccaccca 60
 gagccccatg aagctgatgg ccctgcagct gctgctgtgg cacagtgcac tctggacagt 120
 gcaggaagcc acccccctgg gccctgccag ctccctgccc cagagcttcc tgctcaagtg 180
 cttagagcaa gtgaggaaga tccagggcga tggcgcagcg ctccaggaga agctgtgtgc 240
 cacctacaag ctgtgccacc ccgaggagct ggtgctgctc ggacactctc tgggcatccc 300
 ctgggctccc ctgagcagct gcccagcca ggccctgcag ctggcaggct gcttgagcca 360
 actccatagc ggccttttcc tctaccaggg gctcctgcag gccctggaag ggatctcccc 420
 cgagttgggt cccaccttgg acacactgca gctggacgtc gccgactttg ccaccacat 480

ctggcagcag atggaagaac tgggaatggc ccctgccctg cagcccaccc agggtgccat	540
gccggccttc gcctctgctt tccagcgccg ggcaggaggg gtccctgggtg cctcccatct	600
gcagagcttc ctggagggtgt cgtaccgcgt tctacgccac cttgcccagc cctgagccaa	660
gccctcccca tcccatgtat ttatctctat ttaatattta tgtctattta agcctcatat	720
ttaaagacag ggaagagcag aacggagccc caggcctctg tgtccttccc tgcatttctg	780
agtttcatte tccctgcctgt agcagtgaga aaaagctcct gtccctcccat cccctggact	840
gggaggtaga taggtaaata ccaagtattt attactatga ctgctcccca gccctggctc	900
tgcaatgggc actgggatga gccgctgtga gcccctgggtc ctgagggtcc ccacctggga	960
cccttgagag tatcaggtct cccacgtggg agacaagaaa tccctgttta atatttaaac	1020
agcagtgttc cccatctggg tccttgcacc cctcactctg gcctcagccg actgcacagc	1080
ggcccttgca tcccttggc tgtgaggccc ctggacaagc agagggtggcc agagctggga	1140
ggcatggccc tgggggtccca cgaatttgct ggggaatctc gtttttcttc ttaagacttt	1200
tgggacatgg tttgactccc gaacatcacc gacgtgtctc ctgtttttct ggggtggcctc	1260
gggacacctg ccctgcccc acgagggtca ggactgtgac tctttttagg gccaggcagg	1320
tgccctggaca tttgccttgc tggacgggga ctggggatgt gggaggggagc agacaggagg	1380
aatcatgtca ggccctgtgtg tgaaaggaag ctccactgtc accctccacc tcttcacccc	1440
ccactcacca gtgtcccctc cactgtcaca ttgtaactga acttcaggat aataaagtgt	1500
ttgcctcca	1509

<210> 398
 <211> 1631
 <212> DNA
 <213> Homo sapiens

<400> 398	
ggactttctag cccctgaact ttcagccgaa tacatctttt ccaaaggagt gaattcaggc	60
ccttgtatca ctggcagcag gacgtgacca tggagaagct gttgtgtttc ttggtcttga	120
ccagcctctc tcatgctttt ggccagacag acatgtcgag gaaggctttt gtgtttccca	180
aagagtcgga tacttcctat gtatccctca aagcaccgtt aacgaagcct ctcaaagcct	240
tcaactgtgtg cctccacttc tacacggaac tgtcctcgac ccgggggtaca gtattttctc	300
gtatgccacc aagagacaag acaatgagat tcttcatatt ttggtctaag gatataggat	360
acagttttac agtgggtggg tctgaaatat tattcgaggt tccctgaagtc acagtagctc	420
cagtacacat ttgtacaagc tgggagtcct cctcagggat cgtggagtcc tgggtagatg	480
ggaagcccg ggtgaggaag agtctgaaga agggatacac tgtgggggca gaagcaagca	540

tcatcttggg gcaggagcag gattccttcg gtgggaactt tgaaggaagc cagtcctctg 600
 tgggagacat tggaaatgtg aacatgtggg actttgtgct gtcaccagat gagattaaca 660
 ccatctatct tggcggggccc ttcagtccta atgtcctgaa ctggcgggca ctgaagtatg 720
 aagtgcaagg cgaagtgttc accaaacccc agctgtggcc ctgaggccca gctgtgggtc 780
 ctgaagggtac ctcccggttt tttaacaccg atgggccccca cgtctctgtc tctgggtacct 840
 cccgcttttt tacactgcat gggtcccacg tctctgtctc tgggcctttg tccccctata 900
 tgcattgcag gcctgtccca ccctcctcag cgcctgagaa tggaggtaaa gtgtctgggtc 960
 tgggagctcg ttaactatgc tgggaaacgg tccaaaagaa tcagaatttg aggtgttttg 1020
 ttttcatttt tatttcaagt tggacagatc ttggagataa tttcttacct cacatagatg 1080
 agaaaactaa caccagaaaa ggagaaatga tggtataaaa aactcataag gcaagagctg 1140
 agaaggaagc gctgatcttc tatttaattc cccacccatg acccccagaa agcaggagca 1200
 ttgcccacat tcacaggggt cttcagtatc agaatcagga cactggccag gtgtctgggt 1260
 tgggtccaga gtgctcatca tcatgtcata gaactgctgg gccaggtct cctgaaatgg 1320
 gaagcccagc aataccacgc agtccttcca ctttctcaaa gcacactgga aaggccatta 1380
 gaattgcccc agcagagcag atctgctttt ttccagagc aaaatgaagc actaggtata 1440
 aatatgttgt tactgccaaag aacttaaag actgggtttt gtttgcttgc agtgctttct 1500
 taattttatg gctcttctgg gaaactctc cccttttcca cacgaacctt gtggggctgt 1560
 gaattctttc tcatccccg cattcccaat ataccaggc cacaagagtg gacgtgaaca 1620
 caggtgccgt g 1631

<210> 399
 <211> 3475
 <212> DNA
 <213> Homo sapiens

<400> 399
 cgaggcggca tccgaggggt gggccggcgc cctgggggac cccgggctcc ggaggccatg 60
 ccggcggttg cgcgcgacgc gggcaccgtg ccgctgctcg ttgttttttc tgcaatgata 120
 tttgggacta ttacaaatca agatctgcct gtgatcaagt gtgttttaac caatcataag 180
 aacaatgatt catcagtggg gaagtcatca tcatatccca tgggtatcaga atccccggaa 240
 gacctcgggt gtgcgttgag accccagagc tcagggacag tgtacgaagc tgccgctgtg 300
 gaagtggatg tatctgcttc catcacactg caagtgctgg tcgatgcccc aggggaacatt 360
 tcctgtctct gggctcttaa gcacagctcc ctgaattgcc agccacattt tgatttacia 420
 aacagaggag ttgtttccat ggtcattttg aaaatgacag aaaccaagc tggagaatac 480

ctacttttta ttcagagtga agctaccaat tacacaatat tgtttacagt gagtataaga	540
aataccctgc ttacacatt aagaagacct tacttttagaa aaatggaaaa ccaggacgcc	600
ctggctcgca tatctgagag cgttccagag ccgacgtgg aatgggtgct ttgcgattca	660
cagggggaaa gctgtaaaga agaaagtcca gctgttgta aaaaggagga aaaagtgctt	720
catgaattat ttgggacgga cataaggtgc tgtgccagaa atgaactggg cagggaatgc	780
accaggctgt tcacaataga tctaaatcaa actcctcaga ccacattgcc acaattatct	840
cttaaagtag gggaaccctt atggataagg tgcaaagctg ttcattgtga ccatggattc	900
gggctcacct gggaattaga aaacaaagca ctcgaggagg gcaactactt tgagatgagt	960
acctattcaa caaacagAAC tatgatacgg attctgtttg cttttgtatc atcagtggca	1020
agaaacgaca ccggatacta cacttggttc tcttcaaagc atcccagtca atcagctttg	1080
gttaccatcg taggaaaggg atttataaat gctaccaatt caagtgaaga ttatgaaatt	1140
gaccaatatg aagagttttg tttttctgtc aggtttaaag cctaccaca aatcagatgt	1200
acgtggacct tctctcgaaa atcatttcct tgtgagcaaa aggtctctga taacggatac	1260
agcatatcca agttttgcaa tcataagcac cagccaggag aatatatatt ccatgcagaa	1320
aatgatgatg cccaatttac caaaatgttc acgctgaata taagaaggaa acctcaagtg	1380
ctcgcagaag catcggaag tcaggcgtcc tgtttctcgg atggataccc attaccatct	1440
tggacctgga agaagtgttc agacaagtct cccaactgca cagaagagat cacagaagga	1500
gtctggaata gaaaggctaa cagaaaagtg tttggacagt ggggtgctgag cagtactcta	1560
aacatgagtg aagccataaa agggttcctg gtcaagtgtc gtgcatacaa ttccttggc	1620
acatcttgag agacgatcct tttaaactct ccaggccct tccctttcat ccaagacaac	1680
atctcattct atgcaacaat tgggtgtttgt ctcctcttca ttgtcgtttt aaccctgcta	1740
atttgtcaca agtacaaaaa gcaatttagg tatgaaagcc agctacagat ggtacagggtg	1800
accggctcct cagataatga gtacttctac gttgatttca gagaatatga atatgatctc	1860
aaatgggagt ttccaagaga aaatttagag tttgggaagg tactaggatc aggtgctttt	1920
ggaaaagtga tgaacgcaac agcttatgga attagcaaaa caggagtctc aatccagggt	1980
gccgtcaaaa tgctgaaaga aaaagcagac agctctgaaa gagaggcact catgtcagaa	2040
ctcaagatga tgaccagct ggggaagccac gagaatattg tgaacctgct gggggcgtgc	2100
acactgtcag gaccaattta cttgattttt gaatactgtt gctatggtga tcttctcaac	2160
tatctaagaa gtaaaagaga aaaatttcac aggacttgga cagagatttt caaggaacac	2220
aatttcagtt ttacccac tttccaatca catccaaatt ccagcatgcc tggttcaaga	2280
gaagttcaga tacaccgga ctcggatcaa atctcagggc ttcatttcac	2340

tctgaagatg aaattgaata tgaaaaccaa aaaaggctgg aagaagagga ggacttgaat	2400
gtgcttacat ttgaagatct tctttgcttt gcatatcaag ttgccaaagg aatggaattt	2460
ctggaattta agtcgtgtgt tcacagagac ctggccgcca ggaacgtgct tgtcaccac	2520
gggaaagtgg tgaagatatg tgactttgga ttggctcgag atatcatgag tgattccaac	2580
tatgttgtca ggggcaatgc ccgctctgcct gtaaaatgga tggcccccga aagcctgttt	2640
gaaggcatct acaccattaa gagtgatgtc tggcatatg gaatattact gtgggaaatc	2700
ttctcacttg gtgtgaatcc ttaccctggc attccggttg atgctaactt ctacaaaactg	2760
attcaaaatg gatttaaaat ggatcagcca ttttatgcta cagaagaaat atacattata	2820
atgcaatcct gctgggcttt tgactcaagg aaacggccat ccttcctaa tttgacttcg	2880
tttttaggat gtcagctggc agatgcagaa gaagcgatgt atcagaatgt ggatggccgt	2940
gtttcggaat gtcctcacac ctaccaaacc aggcgacctt tcagcagaga gatggatttg	3000
gggctactct ctccgcaggc tcaggctcga gattcgtaga ggaacaattt agttttaagg	3060
acttcatccc tccacctatc cctaacaggc tgtagattac caaaacaaga ttaatttcat	3120
cactaaaaga aaatctatta tcaactgctg cttcaccaga cttttctcta gaagccgtct	3180
gcgtttactc ttgttttcaa agggactttt gtaaaatcaa atcatcctgt cacaaggcag	3240
gaggagctga taatgaactt tattggagca ttgatctgca tccaaggcct tctcaggccg	3300
gcttgagtga attgtgtacc tgaagtacag tatattcttg taaatacata aaacaaaagc	3360
attttgctaa ggagaagcta atatgatttt ttaagtctat gttttaaaat aatatgtaaa	3420
tttttcagct atttagtgat atattttatg ggtgggaata aaatttctac tacag	3475

<210> 400
 <211> 2365
 <212> DNA
 <213> Homo sapiens

<400> 400	
tcccagcctt cccatcccc caccgaaagc aaatcattca acgacccccg accctccgac	60
ggcaggagcc ccccgacctc ccaggcggac cgcccttccc tccccgcgcg ggttccgggc	120
ccggcgagag ggcgcgacga cagccgaggc catggagggtg acggcggacc agccgcgctg	180
ggtgagccac caccaccccg ccgtgctcaa cgggcagcac ccggacacgc accacccggg	240
cctcagccac tcctacatgg acgcggcgca gtacccgctg ccggaggagg tggatgtgct	300
ttttaacatc gacggtcaag gcaaccacgt cccgccctac tacggaaact cggtcagggc	360
cacggtgcag aggtaccctc cgaccacca cgggagccag gtgtgccgcc cgcctctgct	420
tcatggatcc ctaccctggc tggacggcgg caaagccctg ggcagccacc acaccgctc	480

cccctggaat ctcagcccct tctccaagac gtccatccac cacggctccc cggggcccct	540
ctccgtctac cccccggcct cgtcctcctc cttgtcgggg ggccacgcca gcccgcacct	600
cttcaccttc ccgcccaccc cgccgaagga cgtctccccc gacccatcgc tgtccacccc	660
aggctcggcc ggctcggccc ggcaggacga gaaagagtgc ctcaagtacc aggtgcccct	720
gcccgacagc atgaagctgg agtcgtccca ctcccgtggc agcatgaccg ccctgggtgg	780
agcctcctcg tcgaccaccc accccatcac cacctaccgc ccctacgtgc ccgagtacag	840
ctccggactc ttccccccca gcagcctgct gggcggctcc cccaccggct tcggatgcaa	900
gtccaggccc aaggcccggc ccagcacagg cagggagtgt gtgaactgtg gggcaacctc	960
gacccactg tggcggcgag atggcacggg acactacctg tgcaacgcct gcgggctcta	1020
tcacaaaatg aacggacaga accggcccct cattaagccc aagcgaaggc tgtctgcagc	1080
caggagagca gggacgtcct gtgcgaactg tcagaccacc acaaccacac tctggaggag	1140
gaatgccaat ggggaccctg tctgcaatgc ctgtgggctc tactacaagc ttcacaatat	1200
taacagaccc ctgactatga agaaggaagg catccagacc agaaaccgaa aaatgtctag	1260
caaatccaaa aagtgcaaaa aagtgcattg ctactggag gacttcccca agaacagctc	1320
gtttaaccgc gccgcccctc ccagacacat gtccctcctg agccacatct cgcccttcag	1380
ccactccagc cacatgctga ccacgcccac gccgatgcac ccgccatcca gcctgtcctt	1440
tggaccacac caccctcca gcatggtcac cgccatgggt tagagccctg ctcgatgctc	1500
acagggcccc cagcgagagt ccctgcagtc cctttcgact tgcatttttg caggagcagt	1560
atcatgaagc ctaaacgcga tggatatatg tttttgaagg cagaaagcaa aattatgttt	1620
gccactttgc aaaggagctc actgtggtgt ctgtgttcca accactgaat ctggacccca	1680
tctgtgaata agccattctg actcatatcc cctatttaac agggctctcta gtgctgtgaa	1740
aaaaaaaaat cctgaacatt gcatataact tatattgtaa gaaatactgt acaatgactt	1800
tattgcatct gggtagctgt aaggcatgaa ggatgccaa aagtttaagg aatatgggag	1860
aaatagtgtg gaaattaaga agaaactagg tctgatattc aaatggacaa actgccagtt	1920
ttgtttcctt tccactggcca cagttgtttg atgcattaaa agaaaataaa aaaaagaaaa	1980
aagagaaaaag aaaaaaaaaa aaaaaagttg taggcgaatc atttggtcaa agctgttggc	2040
cctctgcaaa ggaaatacca gttctgggca atcagtgtta ccgttcacca gttgccattg	2100
agggtttcag agagcctttt tctaggccta catgctttgt gaacaagtcc ctgtaattgt	2160
tgtttgatg tataattcaa agcaccacaaa taagaaaaga tgtagattta tttcatcata	2220
ttatacagac cgaactgttg tataaattta ttactgcta gtcttaagaa ctgctttcct	2280

tcgtttgttt gtttcaatat tttccttctc tctcaatttt cggttgaata aactagatta 2340
 cattcagttg gcaaaaaaaaa aaaaa 2365

<210> 401
 <211> 1658
 <212> DNA
 <213> Homo sapiens

<400> 401
 ctctctctct atctctctca gaatgacaat tctaggtaca acttttggca tggttttttc 60
 tttacttcaa gtcgtttctg gagaaagtgg ctatgctcaa aatggagact tggaagatgc 120
 agaactggat gactactcat tctcatgcta tagccagttg gaagtgaatg gatcgagca 180
 ttcactgacc tgtgcttttg aggaccaga tgtcaacacc accaatctgg aatttgaaat 240
 atgtggggcc ctcggtggagg taaagtgcct gaatttcagg aaactacaag agatatattt 300
 catcgagaca aagaaattct tactgattgg aaagagcaat atatgtgtga aggttgagaga 360
 aaagagtcta acctgcaaaa aatagacct aaccactata gttaaactg aggctccttt 420
 tgacctgagt gtcactctatc gggaaggagc caatgacttt gtggtgacat ttaatacatc 480
 acacttgcaa aagaagtatg taaaagtttt aatgcatgat gtagcttacc gccaggaaaa 540
 ggatgaaaac aaatggacgc atgtgaattt atccagcaca aagctgacac tcctgcagag 600
 aaagctccaa ccggcagcaa tgtatgagat taaagttcga tccatccctg atcactattt 660
 taaaggcttc tggagtgaat ggagtccaag ttattacttc agaactccag agatcaataa 720
 tagctcaggg gagatggatc ctatcttact aaccatcagc attttgagtt ttttctctgt 780
 cgctctgttg gtcactcttg cctgtgtgtt atggaaaaaa aggattaagc ctatcgtatg 840
 gccagtcctc ccgatcata agaagactct ggaacatctt tgtaagaaac caagaaaaaa 900
 tttaaatgtg agtttcaatc ctgaaagttt cctggactgc cagattcata gggtgatga 960
 cattcaagct agagatgaag tggaagggtt tctgcaagat acgtttcctc agcaactaga 1020
 agaactctgag aagcagaggc ttggagggga tgtgcagagc cccaactgcc catctgagga 1080
 tgtagtcgtc actccagaaa gctttggaag agattcatcc ctcacatgcc tggctgggaa 1140
 tgtcagtgca tgtgacgccc ctattctctc ctcttcagg tccctagact gcagggagag 1200
 tggcaagaat gggcctcatg tgtaccagga cctcctgctt agccttggga ctacaaacag 1260
 cacgctgccc cctccatttt ctctccaatc tggaatcctg acattgaacc cagttgctca 1320
 gggtcagccc attcttactt ccctgggatc aatcaagaa gaagcatatg tcaccatgtc 1380
 cagcttctac caaaaccagt gaagtgtgaa aaaccagac tgaacttacc gtgagcgaca 1440
 aagatgattt aaaagggaag tctagagttc ctagtctccc tcacagcaca gagaagacaa 1500

aattagcaaa accccactac acagtctgca agattctgaa acattgcttt gaccactctt 1560
 cctgagttca gtggcactca acatgagtca agagcatcct gcttctacca tgtggatttg 1620
 gtcacaaggt ttaaggtgac ccaatgattc agctattt 1658

<210> 402
 <211> 1152
 <212> DNA
 <213> Homo sapiens

<400> 402
 tcagagttca cgaggcagcc gaggaagagg aggcttgagg cccaggggtgg gcaccagcca 60
 gccatggcca cagccgagac cgccttgccc tccatcagca cactgaccgc cctgggcccc 120
 ttcccggaca cacaggatga cttcctcaag tgggtggcgct ccgaagaggc gcaggacatg 180
 ggcccgggtc ctctgaccc cacggagccg cccctccacg tgaagtctga ggaccagccc 240
 ggggaggaag aggacgatga gaggggcgcg gacgccacct gggacctgga tctcctcctc 300
 accaacttct cgggcccggg gcccggtggc gcgccccaga cctgcgctct ggcgcccagc 360
 gaggcctccg gggcgcaata tccgccgccc cccgagactc tgggcgcata tgctggcggc 420
 ccggggctgg tggtgggct tttgggttcg gaggatcact cgggttgggt gcgccctgcc 480
 ctgcgagccc gggctcccga cgccttcgtg ggcccagccc tggctccagc cccggccccc 540
 gagcccaagg cgctggcgct gcaaccggtg taccggggc cggcgcccg ctcctcgggt 600
 ggctacttcc cgcggaccgg gctttcagt cctgcggcgt cgggcgcccc ctacgggcta 660
 ctgtccgggt accccgcgat gtaccggcg cctcagtacc aagggcactt ccagctcttc 720
 cgcgggctcc agggacccgc gcccggtccc gccacgtccc cctccttctt gaggttgttg 780
 ggacccggga cgggtggcac tggactcggg gggactgcag aggatccagg tgtgatagcc 840
 gagaccgcgc catccaagcg aggccgacgt tcgtgggcgc gcaagaggca ggcagcgcac 900
 acgtgcgcgc acccggttg cggcaagagc tacaccaaga gctcccacct gaaggcgcat 960
 ctgcgcacgc acacagggga gaagccatac gcctgcacgt ggggaaggctg cggctggaga 1020
 ttcgcgcgct cggacgagct gaccgcccac taccggaaac acacggggca gcgccccttc 1080
 cgctgccagc tctgccacg tgctttttcg cgtctgacc acctggcctt gcacatgaag 1140
 cgccaccttt ga 1152

<210> 403
 <211> 2032
 <212> DNA
 <213> Homo sapiens

<400> 403
 cgcttgacc atgtgaatgg ggccagaggg cccccgggct gggcaggag catgggctgt 60

ggctgcagct cacacccgga agatgactgg atggaaaaca tcgatgtgtg tgagaactgc	120
cattatccca tagtcccact ggatggcaag ggcacgctgc tcatccgaaa tggctctgag	180
gtgcgggacc cactgggttac ctacgaaggc tccaatccgc cggcttcccc actgcaagac	240
aacctggtta tcgctctgca cagctatgag ccctctcacg acggagatct gggctttgag	300
aagggggaac cactccgcat cctggagcag agcggcgagt ggtggaaggc gcagtccctg	360
accacggggc aggaaggctt catccccttc aattttgtgg ccaaagcgaa cagcctggag	420
cccgaaccct ggttcttcaa gaacctgagc cgcaaggacg cggagcggca gctcctggcg	480
cccggaaca ctcacggctc cttcctcatc cgggagagcg agagcaccgc cgggtccttt	540
tcactgtcgg tccgggactt cgacaaaaac cagggagagg tggtgaaaca ttacaagatc	600
cgtaatctgg acaacgggtg cttctacatc tcccctcgaa tcacttttcc cggcctgcat	660
gaactgggtc gccattacac caatgcttca gatgggctgt gcacacgggt gagccgcccc	720
tgccagaccc agaagcccca gaagccgtgg tgggaggacg agtgggaggt tcccaggag	780
acgctgaagc tgggtggagcg gctgggggct ggacagtctg gggaggtgtg gatggggtac	840
tacaacgggc acacgaaggt ggcgggtgaag agcctgaagc agggcagcat gtccccggac	900
gccttctctg ccgaggccaa cctcatgaag cagctgcaac accagcggct ggttcggctc	960
tacgctgtgg tcacccagga gcccatctac atcatcactg aatacatgga gaatgggagt	1020
ctagtggatt ttctcaagac cccttcaggc atcaagtga ccatcaacaa actcctggac	1080
atggcagccc aaattgcaga aggcatggca ttcatgaag agcggaatta tattcatcgt	1140
gaccttcggg ctgccaacat tctgggtgtc gacaccctga gctgcaagat tgcagacttt	1200
ggcctagcac gcctcattga ggacaacgag tacacagcca gggagggggc caagtttccc	1260
attaagtgga cagcgccaga agccattaac tacgggacat tcaccatcaa gtcagatgtg	1320
tggctctttg ggatcctgct gacggaaatt gtcaccacg gccgcatccc ttacccaggg	1380
atgaccaacc cggaggtgat tcagaacctg gagcgaggct accgcatggg gcgccctgac	1440
aactgtccag aggagctgta ccaactcatg aggctgtgct ggaaggagcg cccagaggac	1500
cggccccact ttgactacct gcgcagtgtg ctggaggact tcttcacggc cacagagggc	1560
cagtaccagc ctcagccttg agaggaggcc ttgagaggcc ctggggttct cccctttct	1620
ctccagcctg acttggggag atggagttct tgtgccatag tcacatggcc tatgcacata	1680
tggactctgc acatgaatcc caccacatg tgacacatat gcacctgtg tctgtacag	1740
tgtcctgtag ttgctgggac tctgcacatg tcttgtgcat gtgtagcctg tgcagtgtg	1800
tcttggacac tgtacaaggt acccctttct ggctctccca tttcctgaga ccaccagaga	1860

gaggggagaa gcctgggatt gacagaagct tctgcccacc tacttttctt tcctcagatc 1920
 atccagaagt tcctcaaggg ccaggacttt atctaatacc tctgtgtgct cctccttggt 1980
 gcctggcctg gcacacatca ggagttcaat aaatgtctgt tgatgactgc cg 2032

<210> 404
 <211> 3084
 <212> DNA
 <213> Homo sapiens

<400> 404
 aagatctaaa aacggacatc tccaccgtgg gtggctcctt tttctttttc tttttttccc 60
 acccttcagg aagtggacgt ttcgttatct tctgatcctt gcaccttctt ttggggaaac 120
 ggggcccttc tgcccagatc ccctctcttt tctcggaana caaactacta agtcggcatc 180
 cggggtaact acagtggaga gggtttccgc ggagacgcgc cgccggaccc tcctctgcac 240
 tttggggagg cgtgctccct ccagaaccgg cgttctccgc gcgcaaatcc cggcgacgcg 300
 gggtcgcggg gtggccgccc gggcagcctc gtctagcgcg cgccgcgcag acgcccccg 360
 agtcgccagc taccgcagcc ctgcgccccc agtgcccttc ggctcggggg cgggcgcctg 420
 cgtcgggtct cgcgaaagcgg gaaagcgcgg cggccgcccg gattcggggc cgcggcagc 480
 tgctccggct gccggccggc ggccccgcgc tcgcccgcgc cgttccgcgc cgtgtcctg 540
 ctgcacgaac ccttccaact ctctttctc cccccacct tgagttacct ctctgtcttt 600
 cctgctgttg cgcgggtgct cccacagcgg agcggagatt acagagccgc cgggatgccc 660
 caactctccg gaggaggtgg cggcggcggg ggggaccggg aactctgcgc cacggacgag 720
 atgatccctt tcaaggacga gggcgatcct cagaaggaaa agatcttcgc cgagatcagt 780
 catcccgaag aggaaggcga tttagctgac atcaagtctt ccttggtgaa cgagtctgaa 840
 atcatcccg cagcaacgg acacgaggtg gccagacaag cacaacctc tcaggagccc 900
 taccacgaca aggccagaga acaccccgat gacggaaagc atccagatgg aggcctctac 960
 aacaagggac cctcctactc gagttattcc gggtagataa tgatgccaaa tatgaataac 1020
 gaccataca tgtcaaatgg atctctttct ccacccatcc cgagaacatc aaataaagtg 1080
 cccgtggtgc agccatccca tgcggtccat cctctcacc ccctcatcac ttacagtgac 1140
 gagcactttt ctccaggatc acacccgtca cacatcccat cagatgtcaa ctccaaacaa 1200
 ggcattgtca gacatcctcc agctcctgat atccctactt tttatccctt gtctccgggt 1260
 ggtgttggtg agatcacccc acctcttggc tggcaaggtc agcctgtata tcccatcacg 1320
 ggtggattca ggcaacccta cccatcctca ctgtcagtcg acacttccat gtccaggttt 1380
 tcccatcata tgattcccgg tcctcctggg cccacacaaa ctggcatccc tcatccagct 1440

```

attgtaacac ctcagggtcaa acaggaacat cccacactg acagtgacct aatgcacgtg 1500
aagcctcagc atgaacagag aaaggagcag gagccaaaaa gacctcacat taagaagcct 1560
ctgaatgctt ttatgttata catgaaagaa atgagagcga atgtcgttgc tgagtgtact 1620
ctaaaagaaa gtgcagctat caaccagatt cttggcagaa ggtggcatgc cctctcccgt 1680
gaagagcagg ctaaataatta tgaattagca cggaaagaaa gacagctaca tatgcagctt 1740
tatccaggct ggtctgcaag agacaattat ggtaagaaaa agaagaggaa gagagagaaa 1800
ctacaggaat ctgcatcagg tacagggtcca agaattgacag ctgcctacat ctgaaacatg 1860
gtggaaaacg aagctcattc ccaacgtgca aagccaaggc agcgacccca ggacctcttc 1920
tggagatgga agcttggtga aaaccagac tgtctccacg gcctgcccag tcgacgccaa 1980
aggaacactg acatcaattt taccctgagg tcaactgctag agacgctgat ccataaagac 2040
aatcactgcc aaccctctt tegtctactg caagagccaa gttccaaaat aaagcataaa 2100
aagggtttttt aaaaggaaat gtaaaagcac atgagaatgc tagcaggctg tggggcagct 2160
gagcagctttt tctccccca tatctgcgtg cacttcccag agcatcttgc atccaaacct 2220
gtaacctttc ggcaaggacg gtaacttggc tgcatttgcc tgtcatgcgc aactggagcc 2280
agcaaccagc tatccatcag caccctcagtg gaggagtcca tggaagagtt ccctctttgt 2340
ttctgcttca tttttctttc ttttcttttc tcctaaagct tttatttaac agtgcaaaaag 2400
gatcggtttt ttttgctttt ttaaacttga atttttttaa tttacacttt ttagttttaa 2460
ttttcttgta tattttgcta gctatgagct tttaaataaa attgaaagtt ctggaaaagt 2520
ttgaaataat gacataaaaa gaagccttct ttttctgaga cagcttgtct ggtaagtggc 2580
ttctctgtga attgcctgta acacatagtg gcttctccgc ccttgtaagg tgttcagtag 2640
agctaaataa atgtaatagc caaacccac tctgttggtg gcaattggca gccctatttc 2700
agtttatttt ttcttctgtt ttcttctttt ctttttttaa acagtaaacc ttaacagatg 2760
cgttcagcag actggtttgc agtgaatttt catttctttc cttatcacc ccttgttgta 2820
aaaagcccag cacttgaatt gttattactt taaatgttct gtatttgat ctgtttttat 2880
tagccaatta gtgggatttt atgccagttg ttaaaatgag cattgatgta cccatttttt 2940
aaaaaagcaa gcacagcctt tgcccaaac tgtcatccta acgtttgtca ttccagtttg 3000
agttaatgtg ctgagcattt ttttaaaaga agctttgtaa taaaacattt ttaaaaattg 3060
tcattttaaaa aaaaaaaaaa aaaa 3084

```

<210> 405
 <211> 1743
 <212> DNA
 <213> Homo sapiens

<400> 405
cagtatccct cctgacaaaa ctaacaaaaa tcctgttagc caaataatca gccacattca 60
tatttaccgt caaagttttt atcctcattt tacagcagtg gagagegatt gccccgggtc 120
ccacgttagg aagagagaga actgggattt gcacccaggc aatctgggga cagagctgtg 180
atcacaactc catgagtcag ggccgagcca gcccttcac caccagccgg ccgcgccccg 240
ggaaggaagt ttgtggcgga ggaagggttcgt acgggaggag ggggaggcgc ccacgcattc 300
ggggctgact cgctctttcg caaaacgtct gggaggagtc cctggggcca caaaactgcc 360
tccttcctga ggccagaagg agagaagacg tgcagggacc ccgcgcacag gagctgccct 420
cgcgacatgg gtcacccgcc gctgctgccg ctgctgctgc tgctccacac ctgcgtccca 480
gcctcttggg gcctgcggtg catgcagtgt aagaccaacg gggattgccg tgtggaagag 540
tgcgccctgg gacaggacct ctgcaggacc acgatcgtgc gcttgtggga agaaggagaa 600
gagctggagc tgggtggagaa aagctgtacc cactcagaga agaccaacag gaccctgagc 660
tatcggactg gcttgaagat caccagcctt accgaggttg tgtgtgggtt agacttgtgc 720
aaccagggca actctggccg ggctgtcacc tattcccgaa gccgttacct cgaatgcatt 780
tcctgtggct catcagacat gagctgtgag aggggcccgc accagagcct gcagtgccgc 840
agccctgaag aacagtgcct ggatgtggtg acccactgga tccaggaagg tgaagaaggg 900
cgtccaaagg atgaccgcca cctccgtggc tgtggctacc ttcccggctg cccgggctcc 960
aatggtttcc acaacaacga caccttcac ttctgaaat gctgcaacac caccaaattgc 1020
aacgagggcc caatcctgga gcttgaaaat ctgccgcaga atggccgcca gtgttacagc 1080
tgcaagggga acagcaccca tggatgctcc tctgaagaga ctttctcat tgactgccga 1140
ggccccatga atcaatgtct ggtagccacc ggcaactcac aaccgaaaaa ccaaagctat 1200
atggtaagag gctgtgcaac cgctcaatg tgccaacatg cccacctggg tgacgccttc 1260
agcatgaacc acattgatgt ctctgtgtg actaaaagtg gctgtaacca cccagacctg 1320
gatgtccagt accgcagtgg ggctgtcct cagcctggcc ctgcccattc cagcctcacc 1380
atcacctgc taatgactgc cagactgtgg ggaggcactc tcctctggac ctaaacctga 1440
aatccccctc tctgccctgg ctggatccgg gggacccctt tgcccttccc tcggctccca 1500
gccctacaga cttgctgtgt gacctcaggc cagtgtgccg acctctctgg gcctcagttt 1560
tcccagctat gaaaacagct atctcacaaa gttgtgtgaa gcagaagaga aaagctggag 1620
gaaggccgtg ggcaatggga gagctcttgt tattattaat attgttgccg ctgttgtgtt 1680
gttgttatta attaatattc atattattta ttttatactt acataaagat tttgtaccag 1740
tggt 1743

<210> 406
 <211> 1204
 <212> DNA
 <213> Homo sapiens

<400> 406
 gaaattctta caaaaactga aagtgaatg aggaagacag attgagcaat ccaatcggag 60
 ggtaaattgcc agcaaactga ctgtacagta ggggtagaga tgcagaaagg cagaaaggag 120
 aaaattcagg ataactctcc tgaggggtga gccaaagcct gccatgtagt gcacgcagga 180
 catcaacaaa cacagataac aggaaatgat ccattccctg tggtcactta ttctaaaggc 240
 cccaaccttc aaagttcaag tagtgatatg gatgactcca cagaaaggga gcagtcacgc 300
 cttacttctt gccttaagaa aagagaagaa atgaaactga aggagtgtgt ttccatcctc 360
 ccacggaagg aaagcccctc tgtccgatcc tccaaagacg gaaagctgct ggctgcaacc 420
 ttgctgctgg cactgctgtc ttgctgcctc acgggtggtgt ctttctacca ggtggccgcc 480
 ctgcaagggg acctggccag cctccgggca gagctgcagg gccaccacgc ggagaagctg 540
 ccagcaggag caggagcccc caaggccggc ctggaggaag ctccagctgt caccgcggga 600
 ctgaaaatct ttgaaccacc agctccagga gaaggcaact ccagtcagaa cagcagaaat 660
 aagcgtgccg ttcagggtcc agaagaaaca gtcactcaag actgcttgca actgattgca 720
 gacagtgaat caccaactat acaaaaagga tcttacacat ttgttccatg gcttctcagc 780
 tttaaaaggg gaagtgcctt agaagaaaaa gagaataaaa tattgggtcaa agaaactggg 840
 tactttttta tatatggtca ggttttatat actgataaga cctacgccat gggacatcta 900
 attcagagga agaagggtcca tgtctttggg gatgaattga gtctgggtgac tttgtttcga 960
 tgtattcaaa atatgcctga aacactaccc aataattcct gctattcagc tggcattgca 1020
 aaactggaag aaggagatga actccaactt gcaataccaa gagaaaatgc acaaatatca 1080
 ctggatggag atgtcacatt ttttgggtga ttgaaactgc tgtgacctac ttacaccatg 1140
 tctgtagcta ttttcctccc tttctctgta cctctaagaa gaaagaatct aactgaaaat 1200
 acca 1204

<210> 407
 <211> 1666
 <212> DNA
 <213> Homo sapiens

<400> 407
 ctccataagg caaaaacttt cagagacagc agagcacaca agcttctagg acaagagcca 60
 ggaagaaacc accggaagga accatctcac tgtgtgtaaa catgacttcc aagctggccg 120

tggtctctctt	ggcagccttc	ctgatttctg	cagctctgtg	tgaaggtgca	gttttgccaa	180
ggagtgcctaa	agaacttaga	tgctcagtga	taaagacata	ctccaaacct	ttccacccca	240
aatttatcaa	agaactgaga	gtgattgaga	gtggaccaca	ctgcgccaac	acagaaatta	300
ttgtaaagct	ttctgatgga	agagagctct	gtctggaccc	caaggaaaac	tgggtgcaga	360
gggttggtgga	gaagtttttg	aagagggctg	agaattcata	aaaaaattca	ttctctgtgg	420
tatccaagaa	tcagtgaaga	tgccagtga	acttcaagca	aatctacttc	aacacttcat	480
gtattgtgtg	ggctctgttg	agggttgcca	gatgcaatac	aagattcctg	gttaaatttg	540
aatttcagta	aacaatgaat	agtttttcat	tgtaccatga	aatatccaga	acatacttat	600
atgtaaagta	ttattttatt	gaatctacaa	aaaacaacaa	ataattttta	aatataagga	660
ttttcctaga	tattgcacgg	gagaatatac	aatagcaaaa	attgaggcca	agggcccaaga	720
gaatatccga	actttaattt	caggaattga	atggggttgc	tagaatgtga	tatttgaagc	780
atcacataaa	aatgatggga	caataaattt	tgccataaag	tcaaatttag	ctggaaatcc	840
tggatttttt	tctgttaa	ctggcaaccc	tagtctgcta	gccaggatcc	acaagtcctt	900
gttccactgt	gccttggttt	ctcctttatt	tctaagtgga	aaaagtatta	gccaccatct	960
tacctcacag	tgatgttggtg	aggacatgtg	gaagcacttt	aagttttttc	atcataacat	1020
aaattatttt	caagtgtaac	ttattaacct	atttattatt	tatgtattta	tttaagcatc	1080
aatattttgt	gcaagaattt	ggaaaaatag	aagatgaatc	attgattgaa	tagttataaa	1140
gatgttatag	taaatttatt	ttattttaga	tattaaatga	tgttttatta	gataaatttc	1200
aatcaggggt	tttagattaa	acaaacaaac	aattgggtac	ccagttaaat	tttcattttca	1260
gataaacaac	aaataatttt	ttagtataag	tacattattg	tttatctgaa	attttaattg	1320
aactaacaat	cctagtttga	tactcccagt	cttgtcattg	ccagctgtgt	tggtagtgtc	1380
gtgttgaatt	acggaataat	gagttagaac	tattaaaaca	gccaaaactc	cacagtcaat	1440
attagtaatt	tcttgctggg	tgaaacttgt	ttattatgta	caaatagatt	cttataatat	1500
tatttaaattg	actgcatttt	taaatacaag	gctttatatt	tttaacttta	agatgttttt	1560
atgtgctctc	caaatttttt	ttactgtttc	tgattgtatg	gaaatataaa	agtaaataatg	1620
aaacatttaa	aatataattt	gttgtcaaag	taaaaaaaaa	aaaaaa		1666

<210> 408

<211> 960

<212> DNA

<213> Homo sapiens

<400> 408

agcagctcca	accagggcag	ccttcctgag	aagatgcaac	caatcctgct	tctgctggcc	60
------------	------------	------------	------------	------------	------------	----

ttctctctgc tgcccagggc agatgcaggg gagatcatcg ggggacatga ggccaagccc 120
 cactcccgcc cctacatggc ttatcttatg atctgggatc agaagtctct gaagaggtgc 180
 ggtggcttcc tgatacaaga cgacttcgtg ctgacagctg ctactgttg gggaagctcc 240
 ataaatgtca ccttgggggc ccacaatatc aaagaacagg agccgacca gcagtttatc 300
 cctgtgaaaa gacccatccc ccatccagcc tataatccta agaacttctc caacgacatc 360
 atgctactgc agctggagag aaaggccaag cggaccagag ctgtgcagcc cctcaggcta 420
 cctagcaaca agggccaggt gaagccaggg cagacatgca gtgtggccgg ctgggggcag 480
 acggccccc tgggaaaaca ctcacacaca ctacaagagg tgaagatgac agtgcaggaa 540
 gatcgaaagt gcgaatctga cttacgcatc tattacgaca gtaccattga gttgtgcgtg 600
 ggggacccag agattaaaaa gacttccttt aagggggact ctggaggccc tcttgtgtgt 660
 aacaaggtgg ccagggcatc tgtctcctat ggacgaaaca atggcatgcc tccacgagcc 720
 tgcaccaaag tctcaagctt tgtacactgg ataaagaaaa ccatgaaacg ctactaacta 780
 caggaagcaa actaagcccc cgctgtaatg aaacaccttc tctggagcca agtccagatt 840
 tacactggga gaggtgccag caactgaata aatacctctc ccagtgtaaa tctggagcca 900
 agtccagatt tacactggga gaggtgccag caactgaata aatacctctt agctgagtgg 960

<210> 409
 <211> 1909
 <212> DNA
 <213> Homo sapiens

<400> 409
 gaggtgtttc ccttagctat ggaaactcta taagagagat ccagcttgcc tcctcttgag 60
 cagtcagcaa caggggtccc tccttgacac ctccagcctc acaggactga gaagaagtaa 120
 aaccgtttgc tggggctggc ctgactcacc agctgccatg cagcagccct tcaattaccc 180
 atatccccag atctactggg tggacagcag tgccagctct ccctgggccc ctccaggcac 240
 agttcttccc tgtccaacct ctgtgcccag aaggcctggg caaaggaggc caccaccacc 300
 accgccaccg ccaccactac cacctccgcc gccgccgcca ccaactgcctc cactaccgct 360
 gccacccctg aagaagagag ggaaccacag cacaggcctg tgtctccttg tgatgttttt 420
 catggttctg gttgccttgg taggattggg cctggggatg tttcagctct tccacctaca 480
 gaaggagctg gcagaactcc gagagtctac cagccagatg cacacagcat catctttgga 540
 gaagcaaata ggccacccca gtccaccccc tgaaaaaaag gagctgagga aagtggccca 600
 tttaacaggc aagtccaact caaggcccat gcctctggaa tgggaagaca cctatggaat 660
 tgtcctgctt tctggagtga agtataagaa ggggtggcct gtgatcaatg aaactgggct 720

```

gtactttgta tattccaaag tatacttccg ggggtcaatct tgcaacaacc tgcccctgag      780
ccacaaggtc tacatgagga actctaagta tccccaggat ctgggtgatga tggaggggaa      840
gatgatgagc tactgcacta ctgggcagat gtgggcccgc agcagctacc tgggggcagt      900
gttcaatctt accagtgctg atcatttata tgtcaacgta tctgagctct ctctggtcaa      960
ttttgaggaa tctcagacgt ttttcggctt atataagctc taagagaagc actttgggat     1020
tctttccatt atgattcttt gttacaggca ccgagaatgt tgtattcagt gagggctctc     1080
ttacatgcat ttgagggtcaa gtaagaagac atgaaccaag tggaccttga gaccacaggg     1140
ttcaaaatgt ctgtagctcc tcaactcacc taatgtttat gagccagaca aatggaggaa     1200
tatgacggaa gaacatagaa ctctgggctg ccatgtgaag agggagaagc atgaaaaagc     1260
agctaccagg tgttctacac tcatcttagt gcctgagagt atttaggcag attgaaaagg     1320
acacctttta actcacctct caagggtgggc cttgctacct caaggggggac tgtctttcag     1380
atacatgggt gtgacctgag gatttaaggg atggaaaagg aagactagag gcttgcataa     1440
taagctaaag aggctgaaag aggccaatgc cccactggca gcatcttcac ttctaaatgc     1500
atatactgag ccatcgggtg aactaacaga taagcaagag agatgttttg gggactcatt     1560
tcattcctaa cacagcatgt gtatttccag tgcaattgta ggggtgtgtg tgtgtgtgtg     1620
tgtgtgtgtg tgtgtatgac taaagagaga atgtagatat tgtgaagtac atattaggaa     1680
aatatggggt gcatttggtc aagattttga atgcttctcg acaatcaact ctaatagtgc     1740
ttaaaaatca ttgattgtca gctactaatg atgttttcct ataataaat aaatatttat     1800
gtagatgtgc atttttgtga aatgaaaaca tgtaataaaa agtatatgtt aggatacaaa     1860
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1909

```

```

<210> 410
<211> 2700
<212> DNA
<213> Homo sapiens

```

```

<400> 410
gcgggcctta gtcccgggct ggcgggagtg cagttctgag tcccgcccg cgtgcgcgga      60
gcggggcagc cagcagcgga ggcgcggcgc gcagcacacc cggggaccat gggctccatg     120
ttccggagcg aggaggtggc cctggtccag ctctttctgc ccacagcggc tgcctacacc     180
tgcgtagtc ggctgggcga gctgggcctc gtggagttca gagacctcaa cgcctcgggtg     240
agcgccttcc agagacgctt tgtggttgat gttcggcgct gtgaggagct ggagaagacc     300
ttcaccttcc tgcaggagga ggtgcggcgg gctgggctgg tcctgcccc gccaaagggg     360
aggctgccgg cacccccacc ccgggacctg ctgcgcatcc aggaggagac ggagcgcctg     420

```

gcccaggagc	tgcgggatgt	gcggggcaac	cagcaggccc	tgcgggccca	gctgcaccag	480
ctgcagctcc	acgccgccgt	gctacgccag	ggccatgaac	ctcagctggc	agccgcccac	540
acagatgggg	cctcagagag	gacgcccctg	ctccaggccc	ccggggggcc	gcaccaggac	600
ctgaggggtca	actttgtggc	aggtgccgtg	gagccccaca	aggcccctgc	cctagagcgc	660
ctgctctgga	gggcctgccg	cggcttcctc	attgccagct	tcaggggagct	ggagcagccg	720
ctggagcacc	ccgtgacggg	cgagccagcc	acgtggatga	ccttcctcat	ctcctactgg	780
ggtgagcaga	tcggacagaa	gatccgcaag	atcacggact	gcttccactg	ccacgtcttc	840
ccgtttctgc	agcaggagga	ggcccgccctc	ggggccctgc	agcagctgca	acagcagagc	900
caggagctgc	aggaggtcct	cggggagaca	gagcgggttc	tgagccagggt	gctaggccgg	960
gtgctgcagc	tgctgccgcc	agggcagggtg	caggtccaca	agatgaaggc	cgtgtacctg	1020
gccctgaacc	agtgcagcgt	gagcaccacg	cacaagtgcc	tcattgccga	ggcctggtgc	1080
tctgtgcgag	acctgcccgc	cctgcaggag	gccctgcggg	acagctcgat	ggaggagggga	1140
gtgagtgccg	tggttcaccg	catcccctgc	cgggacatgc	ccccacact	catccgcacc	1200
aaccgcttca	cggccagctt	ccagggcatc	gtggatgcct	acggcgtggg	ccgctaccag	1260
gaggtcaacc	ccgtcccta	caccatcatc	accttccccct	tcctgtttgc	tgtgatgttc	1320
ggggatgtgg	gccacgggct	gtcatgttc	ctcttcgccc	tggccatggg	ccttgccggag	1380
aaccgaccgg	ctgtgaaggc	cgcgcagaa	gagatctggc	agactttctt	cagggggccgc	1440
tacctgctcc	tgcttatggg	cctgttctcc	atctacaccg	gcttcatcta	caacgagtgc	1500
ttcagtcgcg	ccaccagcat	cttcccctcg	ggctggagtg	tggccgccat	ggccaaccag	1560
tctggctgga	gtgatgcatt	cctggcccag	cacacgatgc	ttaccctgga	tcccaacgtc	1620
accggtgtct	tcctgggacc	ctaccccttt	ggcatcgatc	ctatttgag	cctggctgcc	1680
aaccacttga	gcttcctcaa	ctccttcaag	atgaagatgt	ccgtcatcct	gggcgtcgtg	1740
cacatggcct	ttgggggtgg	cctcggagtc	ttcaaccacg	tgcactttgg	ccagaggcac	1800
cggctgctgc	tggagacgct	gccggagctc	accttcctgc	tgggactctt	cggttacctc	1860
gtgttcctag	tcatctacaa	gtggctgtgt	gtctgggctg	ccagggccgc	ctcggccccc	1920
agcatcctca	tccacttcat	caacatgttc	ctcttctccc	acagccccag	caacaggctg	1980
ctctaccccc	ggcaggaggt	ggtccaggcc	acgtgggtgg	tcctggcctt	ggccatgggtg	2040
cccatcctgc	tgcttggcac	accctgcac	ctgctgcacc	gccaccgccg	ccgcctgcgg	2100
aggaggcccc	ctgaccgaca	ggaggaaaac	aaggccgggt	tgctggacct	gcctgacgca	2160
tctgtgaatg	gctggagctc	cgatgaggaa	aaggcagggg	gcctggatga	tgaagaggag	2220
gccgagctcg	tccccccga	ggtgctcatg	caccaggcca	tccacaccat	cgagttctgc	2280

ctgggctgcg	tctccaacac	cgctcctac	ctgcgctgt	gggccctgag	cctggcccac	2340
gcccagctgt	ccgaggttct	gtgggccatg	gtgatgcgca	taggcctggg	cctgggccgg	2400
gaggtgggcg	tggcggctgt	ggtgctggtc	cccatctttg	ccgcctttgc	cgtgatgacc	2460
gtggctatcc	tgctggtgat	ggagggactc	tcagccttcc	tgcacgccct	gcggctgcac	2520
tgggtggaat	tccagaacaa	gttctactca	ggcacgggct	acaagctgag	tccttcacc	2580
ttcgctgcc	cagatgacta	gggccactg	caggtcctgc	cagacctcct	tcctgacctc	2640
tgaggcagga	gaggaataaa	gacggtcgc	cctggcagt	aaaaaaaaa	aaaaaaaaa	2700

<210> 411
 <211> 1668
 <212> DNA
 <213> Homo sapiens

<400> 411	
atggcagccc	gtctgctcct cctgggcata cttctcctgc tgctgcccct gccgctccct 60
gccccgtgcc	acacagccgc acgctcagag tgcaagcgca gccacaagtt cgtgcctggt 120
gcatggctgg	ccggggaggg tgtggacgtg accagcctcc gccgctcggg ctcttccca 180
gtggacacac	aaaggttcct gcggcccgac ggcacctgca ccctctgtga aaatgcccta 240
caggagggca	ccctccagcg cctgcctctg gcgctacca actggcgggc ccagggtctt 300
ggctgccagc	gccatgtaac cagggccaaa gtcagctcca ctgaagctgt ggccgggat 360
gcggctcgta	gcatccgcaa cgactggaag gtcgggctgg acgtgactcc taagcccacc 420
agcaatgtgc	atgtgtctgt ggccggctca cactcacagg cagccaactt tgcagcccag 480
aagaccacc	aggaccagta cagcttcagc actgacacgg tggagtgccg cttctacagt 540
ttccatgtgg	tacacactcc cccgctgcac cctgacttca agagggccct cggggacctg 600
ccccaccact	tcaacgcctc caccagccc gcctacctca ggcttatctc caactacggc 660
accacttca	tccgggctgt ggagctgggt ggccgcatat cggccctcac tgccctgcgc 720
acctgcgagc	tggccctgga agggctcacg gacaacgagg tggaggactg cctgactgtc 780
gaggcccagg	tcaacatagg catccacggc agcatctctg ccgaagccaa ggctgtgag 840
gagaagaaga	agaagcaca gatgacggcc tccttcacc aaacctaccg ggagcgccac 900
tcggaagtgg	ttggcggcca tcacacctcc attaacgacc tgctgttcgg gatccaggcc 960
gggcccagc	agtactcagc ctgggtaaac tccgtgcccg gcagccctgg cctggtggac 1020
tacaccctgg	aacctctgca cgtgctgctg gacagccagg accgcggcg ggaggcactg 1080
aggagggccc	tgagtcagta cctgacggac agggctcgct ggagggactg cagccggccg 1140
tgcccaccag	ggcggcagaa gagccccga gacctatgcc agtgtgtgtg ccatggctca 1200

gcggtcacca cccaggactg ctgccctcgg cagagggggcc tggcccagct ggaggtgacc 1260
 ttcatccaag catggagcct gtgggggggac tggttcactg ccacggatgc ctatgtgaag 1320
 ctcttctttg gtggccagga gctgaggacg agcaccgtgt gggacaataa caaccccatc 1380
 tggtcagtgc ggctggattt tggggatgtg ctccctggcca cagggggggcc cctgaggttg 1440
 caggtctggg atcaggactc tggcaggggac gatgacctcc ttggcacctg tgatcaggct 1500
 cccaagtctg gttcccatga ggtgagatgc aacctgaatc atggccacct aaaattccgc 1560
 tatcatgcca ggtgcttgcc ccacctggga ggaggcacct gcctggacta tgtcccccaa 1620
 atgcttctgg gggagcctcc aggaaaccgg agtggggccg tgtggtga 1668

<210> 412
 <211> 921
 <212> DNA
 <213> Homo sapiens

<400> 412
 ttctatgcaa agcaaaaagc cagcagcagc cccaagctga taagattaat ctaaagagca 60
 aattatggtg taatttccta tgctgaaact ttgtagttaa ttttttaaaa aggtttcatt 120
 ttcctattgg tctgatttca caggaacatt ttacctgtt gtgaggcatt ttttctctg 180
 gaagagaggt gctgattggc cccaagtgc tgacaatctg gtgtaacgaa aatttccaat 240
 gtaaaactcat tttccctcgg tttcagcaat tttaaatcta tatatagaga tatctttgtc 300
 agcattgcat cgttagcttc tctgataaa ctaattgcct cacattgtca ctgcaaactc 360
 acacctatta atgggtctca cctcccaact gcttccccct ctgttcttcc tgctagcatg 420
 tgccggcaac tttgtccacg gacacaagtg cgatatcacc ttacaggaga tcatcaaac 480
 tttgaacagc ctacacagagc agaagactct gtgcaccgag ttgaccgtaa cagacatctt 540
 tgctgcctcc aagaacacaa ctgagaagga aaccttctgc agggctgcga ctgtgctccg 600
 gcagttctac agccaccatg agaaggacac tcgctgcctg ggtgcgactg cacagcagtt 660
 ccacaggcac aagcagctga tccgattcct gaaacggctc gacaggaacc tctggggcct 720
 ggcgggcttg aattcctgtc ctgtgaagga agccaaccag agtacgttg aaaacttctt 780
 ggaaaggcta aagacgatca tgagagagaa atattcaaag tgttcgagct gaatatttta 840
 atttatgagt ttttgatagc tttatTTTTT aagtatttat atatttataa ctcatcataa 900
 aataaagtat atatagaatc t 921

<210> 413
 <211> 1282
 <212> DNA
 <213> Homo sapiens

<400> 413

```

aagccaccca gcctatgcat ccgctcctca atcctctcct gttggcactg ggcctcatgg      60
cgctttttgtt gaccacgggtc attgctctca cttgccttgg cggctttgcc tccccaggcc      120
ctgtgcctcc ctctacagcc ctcagggagc tcattgagga gctgggtcaac atcacccaga      180
accagaaggc tccgctctgc aatggcagca tggatatggag catcaacctg acagctggca      240
tgtactgtgc agccctggaa tccctgatca acgtgtcagg ctgcagtgcc atcgagaaga      300
cccagaggat gctgagcgga ttctgcccgc acaagggtctc agctgggcag ttttccagct      360
tgcattgtccg agacaccaa atcgaggtgg cccagtttgt aaaggacctg ctcttacatt      420
taaagaaact ttttcgagag ggacagttca actgaaactt cgaaagcatc attatttgca      480
gagacaggac ctgactattg aagttgcaga ttcatTTTTTc tttctgatgt caaaaatgtc      540
ttgggtaggc gggaaggagg gttagggagg ggtaaaattc cttagcttag acctcagcct      600
gtgctgccccg tcttcagcct agccgacctc agccttcccc ttgcccaggg ctcagcctgg      660
tgggcctcct ctgtccaggg ccctgagctc ggtggacca gggatgacat gtccttacac      720
ccctcccttg ccctagagca cactgtagca ttacagtggg tgccccctt gccagacatg      780
tgggtgggaca gggacccact tcacacacag gcaactgagg cagacagcag ctcaggcaca      840
cttcttcttg gtcttattta ttattgtgtg ttatttaa at gagtgtgttt gtcaccgttg      900
gggattgggg aagactgtgg ctgctagcac ttggagccaa gggttcagag actcagggcc      960
ccagcactaa agcagtggac accaggagtc cctggtaata agtactgtgt acagaattct     1020
gctacctcac tggggctcctg gggcctcgga gcctcatccg aggcaggggtc aggagagggg     1080
cagaacagcc gctcctgtct gccagccagc agccagctct cagccaacga gtaatttatt     1140
gtttttcctt gtatttaa attaaatatg ttagcaaaga gttaatatat agaagggtag     1200
cttgaacact gggggagggg acattgaaca agttgtttca ttgactatca aactgaagcc     1260
agaaataaag ttggtgacag at                                             1282

```

<210> 414

<211> 2025

<212> DNA

<213> Homo sapiens

<400> 414

```

cttctgtgtg tgcacatgtg taatacatat ctgggatcaa agctatctat ataaagtcct      60
tgattctgtg tgggttcaaa cacatttcaa agcttcagga tcttgaaagg ttttgcctca      120
cttctgaag acctgaacac cgctcccata aagccatggc ttgccttgga tttcagcggc      180
acaaggctca gctgaacctg gctaccagga cctggccctg cactctcctg ttttttcttc      240

```

tcttcatccc tgtcttctgc aaagcaatgc acgtggccca gcctgctgtg gtactggcca	300
gcagccgagg catcgccagc tttgtgtgtg agtatgcatc tccaggcaaa gccactgagg	360
tccgggtgac agtgcttcgg caggctgaca gccagggtgac tgaagtctgt gcggcaacct	420
acatgatggg gaatgagttg accttcctag atgattccat ctgcacgggc acctccagtg	480
gaaatcaagt gaacctcact atccaaggac tgagggccat ggacacggga ctctacatct	540
gcaagggtgga gctcatgtac ccaccgccat actacctggg cataggcaac ggaaccaga	600
tttatgtaat tgatccagaa ccgtgccag attctgactt cctcctctgg atccttgcag	660
cagttagttc ggggttgttt ttttatagct ttctcctcac agctgtttct ttgagcaaaa	720
tgctaaagaa aagaagccct cttacaacag gggcttatgt gaaaatgccc ccaacagagc	780
cagaatgtga aaagcaattt cagccttatt ttattcccat caattgagaa accattatga	840
agaagagagt ccatatttca atttccaaga gctgaggcaa ttctaacttt ttgctatcc	900
agctattttt atttgtttgt gcatttgggg ggaattcatc tctctttaat ataaagttgg	960
atgcggaacc caaattacgt gtactacaat ttaaagcaaa ggagtagaaa gacagagctg	1020
ggatgtttct gtcacatcag ctccactttc agtgaaagca tcacttggga ttaatatggg	1080
gatgcagcat tatgatgtgg gtcaaggaat taagttaggg aatggcacag cccaaagaag	1140
gaaaaggcag ggagcgaggg agaagactat attgtacaca cttatatatt acgtatgaga	1200
cgtttatagc cgaaatgac ttttcaagtt aaattttatg ctttttattt cttaaacaaa	1260
tgtatgatta catcaaggct tcaaaaatac tcacatggct atgttttagc cagtgatgct	1320
aaaggttgta ttgcatatat acatatatat atatatatat atatatatat atatatatat	1380
atatatatatat tttaatttga tagtattgtg catagagcca cgtatgtttt tgtgtatttg	1440
ttaatggttt gaatataaac actatatggc agtgtctttc caccttgggt cccagggaag	1500
ttttgtggag gagctcagga cactaataca ccaggtagaa cacaaggcca ttgctaact	1560
agcttggaac ctggatgagg tcatagcagt gcttgattgc gtggaattgt gctgagttgg	1620
tgttgacatg tgctttgggg cttttacacc agttcctttc aatgggtttgc aaggaagcca	1680
cagctggtgg tatctgagtt gacttgacag aacactgtct tgaagacaat ggcttactcc	1740
aggagacca caggatgac cttctaggaa gctccagttc gatgggcca attcttaca	1800
acatgtggtt aatgccatgg acagaagaag gcagcaggtg gcagaatggg gtgcatgaag	1860
gtttctgaaa attaacactg cttgtgtttt taactcaata ttttccatga aaatgcaaca	1920
acatgtataa tatttttaaat taaataaaaa tctgtggtgg tcgttttaaa aaaaaaaaaa	1980
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa	2025

<210> 415
 <211> 2261
 <212> DNA
 <213> Homo sapiens

<400> 415
 gaaatcaggc tccgggcccgg ccgaagggcg caactttccc ccctcggcgc cccaccggct 60
 cccgcgcgcc tccccctcgcg cccgagcttc gagccaagca gcgtcctggg gagcgcgtca 120
 tggcettacc agtgaccgcc ttgctcctgc cgctggcctt gctgctccac gccgccaggc 180
 cgagccagtt ccgggtgtcg ccgctggatc ggacctggaa cctgggagag acagtggagc 240
 tgaagtgccg ggtgctgctg tccaacccga cgctgggctg ctgctggctc ttccagccgc 300
 gcggcgccgc cgccagtccc accttcctcc tatacctctc ccaaaacaag cccaaggcgg 360
 ccgagggggct ggacacccag cggttctcgg gcaagagggt gggggacacc ttcgtcctca 420
 ccctgagcga cttccgccga gagaacgagg gctactattt ctgctcggcc ctgagcaact 480
 ccatcatgta cttcagccac ttcgtgccgg tcttctctgc agcgaagccc accacgacgc 540
 cagcgccgcg accaccaaca ccggcgccca ccatcgctc gcagcccctg tccctgcgcc 600
 cagaggcgtg ccggccagcg gcggggggcg cagtgcacac gagggggctg gacttcgcct 660
 gtgatatacta catctgggcg cccttggccg ggacttgtgg ggtccttctc ctgtcactgg 720
 ttatcacctt ttactgcaac cacaggaacc gaagacgtgt ttgcaaagt ccccggcctg 780
 tgggtcaaatac gggagacaag cccagccttt cggcgagata cgtctaacc tgtgcaacag 840
 ccactacatt acttcaaact gagatccttc cttttgaggg agcaagtct tccctttcat 900
 tttttccagt cttcctccct gtgtattcat tctcatgatt attatttttag tgggggcggg 960
 gtgggaaaga ttactttttt tttatgtgtt tgacgggaaa caaaactagg taaaatctac 1020
 agtacaccac aagggtcaca atactgttgt gcgcacatcg cggtagggcg tggaaagggg 1080
 caggccagag ctaccgcgag agttctcaga atcatgctga gagagctgga ggcacccatg 1140
 ccatctcaac ctcttccccg ccggttttac aaagggggag gctaaagccc agagacagct 1200
 tgatcaaagg cacacagcaa gtcagggttg gagcagtagc tggagggacc ttgtctccca 1260
 gctcagggtc ctttctcca caccattcag gtctttcttt ccgaggcccc tgtctcaggg 1320
 tgagggtgctt gagtctccaa cggcaaggga acaagtactt cttgatacct gggatactgt 1380
 gccagagcc tcgaggaggt aatgaattaa agaagagaac tgcctttggc agagtcttat 1440
 aatgtaaaaca atatcagact tttttttttt ataatacagc ctaaaattgt atagacctaa 1500
 aataaaatga agtgggtgagc ttaaccctgg aaaatgaatc cctctatctc taaagaaaat 1560
 ctctgtgaaa cccctatgtg gaggcggaat tgctctccca gcccttgcac tgcagagggg 1620
 cccatgaaag aggacaggct acccctttac aaatagaatt tgagcatcag tgagggttaa 1680

```

ctaaggccct cttgaatctc tgaatttgag atacaaacat gttcctggga tcactgatga 1740
ctttttatac tttgtaaaga caattgttgg agagccccctc acacagccct ggcctctgct 1800
caactagcag atacagggat gaggcagacc tgactctctt aaggaggctg agagcccaaa 1860
ctgctgtccc aaacatgcac ttccttgctt aaggatatgt acaagcaatg cctgcccatt 1920
ggagagaaaa aacttaagta gataaggaaa taagaaccac tcataattct tcaccttagg 1980
aataatctcc tgttaatatg gtgtacattc ttcctgatta ttttctacac atacatgtaa 2040
aatatgtctt tcttttttaa atagggttgt actatgctgt tatgagtggc tttaatgaat 2100
aaacatttgt agcatcctct ttaatgggta aacagcaaaa aaaaaaaaaa aaaaaaaaaa 2160
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a a 2261

```

```

<210> 416
<211> 1425
<212> DNA
<213> Homo sapiens

```

```

<400> 416
cagtctgaga acaagaaaga agaacttctg tctcgagggt ctactgtca accaggccag 60
agtgcagtga agatcatacc tcactacatc cgtgaactcc cgggctcctc ccacctaagt 120
ctcttgagta gctgggactt caggagactg aagccaagga taccagcaga gccaacattt 180
gcttcaagtt cctgggcctg ctgacagcgt gcaggatgct gttggaaccc ggcagaggct 240
gctgtgccct ggccatcctg ctggcaattg tggacatcca gtctggtgga tgcattaaca 300
tcaccagctc agcttcccag gaaggaacgc gactaaactt aatctgtact gtatggcata 360
agaaagaaga ggctgagggg tttgtagtgt ttttgtgcaa ggacaggctc ggagactgtt 420
ctcctgagac cagtttaaaa cagctgagac ttaaaaggga tcctgggata gatggtgttg 480
gtgaaatata atctcagttg atgttcacca taagccaagt cacaccgttg cacagtggga 540
cctaccagtg ttgtgccaga agccagaagt caggtatccg ccttcagggc cattttttct 600
ccattctatt cacagagaca gggaactaca cagtgcaggg attgaaacaa agacaacacc 660
ttgagttcag ccataatgaa ggcactctca gttcaggctt cctacaagaa aaggtctggg 720
taatgctggg caccagcctt gtggcccttc aagctttgta agcctgtcca aaagaacttt 780
taaaacagct acagcaagat gagtctgact atggcttagt atctttctca ttacaatagg 840
cacagagaag aatgcaacag ggcacagggg aagagatgct aaatatacca agaactctgtg 900
gaaatataag ctggggcaaa tcagtgtaat ccttgacttt gtcctcacc atcagggcaa 960
acttgccttc ttcctccta agctccagta aataaacaga acagctttca ccaaagtggg 1020

```

```

tagtatagtc ctcaaatac ggataaatat atgcgttttt gtaccccaga aaaacttttc 1080
ctccctcttc atcaacatag taaaataagt caaacaaaat gagaacacca aattttgggg 1140
gaataaattt ttatttaaca ctgcaaagga aagagagaga aaacaagcaa agataggtag 1200
gacagaaagg aagacagcca gatccagtga ttgacttggc atgaaaatga gaaaatgcag 1260
acagacctca acattcaaca ttcaacaaca tccatacagc actgctggag gaagaggaag 1320
atttgtgcag accaagagca ccacagacta caactgccca gcttcatcta aatacttggt 1380
aacctctttg gtcattttctc tttttaaata aatgcccata gcagt 1425

```

<210> 417
 <211> 292
 <212> DNA
 <213> Homo sapiens

```

<400> 417
tcttcaacaa ggggttaaatac agtcagtttc taaaactggg gggagggtctc cataaacctg 60
ataacaagat cccaaactcc aaactgattg actgagttaa ttctgatca tttgggttga 120
acttaagagt tatacaagaa aatggtaggg gacgaggagg ttgtataaag gggaaaaaac 180
aacaactgca aaaagcccaa gagcctgaat ttagaccaat ctatcatctt cctcctctta 240
aaaagaaaac aattttaaag tttcaaaaaa aaaaaaaaaa aaaaaaaaaa aa 292

```

<210> 418
 <211> 626
 <212> DNA
 <213> Homo sapiens

```

<400> 418
acatttgctt ctgacacaac tgtgttcact agcaacctca aacagacacc atgggtgcac 60
tgactcctga ggagaagtct gccgttactg ccctgtgggg caaggatgaac gtggatgaag 120
ttggtggtga ggccctgggc aggctgctgg tggctaccc ttggacccag aggttctttg 180
agtccttttg ggatctgtcc actcctgatg ctgttatggg caaccctaag gtgaaggctc 240
atggcaagaa agtgctcggt gccttttagtg atggcctggc tcacctggac aacctcaagg 300
gcacctttgc cacactgagt gagctgcact gtgacaagct gcacgtggat cctgagaact 360
tcaggctcct gggcaacgtg ctggtctgtg tgctggccca tcactttggc aaagaattca 420
ccccaccagt gcaggctgcc tatcagaaag tgggtggctgg tgtggctaata gccctggccc 480
acaagtatca ctaagctcgc tttcttgctg tccaatttct attaaagggt cctttgttcc 540
ctaagtccaa ctactaaact gggggatatt atgaaggggc ttgagcatct ggattctgcc 600
taataaaaaa catttatttt cattgc 626

```

<210> 419
 <211> 1764
 <212> DNA
 <213> Homo sapiens

<400> 419
 cgtctgggtc aggggctaga aaagagcgtc gatgccggcg gcagtgatga gtcctaggag 60
 gcgctggctc tttggcggct cggaggagcg gctgctgctg ctgctgctgc tgctggtggc 120
 ccctttgcag atgtattgct gtccttgaat attagcccat ttgaaaacgc ctgggaagtt 180
 cagccatcag tatgtccaag tacaaactta ttatgttaag acatggagag ggtgcttgga 240
 ataaggagaa ccgtttttgt agctgggtgg atcagaaact caacagcgaa ggaatggagg 300
 aagctcggaa ctgtgggaag caactcaaag cgttaaactt tgagtttgat cttgtattca 360
 catctgtcct taatcgggtcc attcacacag cctggctgat cctggaagag ctaggccagg 420
 aatgggtgcc tgtggaaagc tcctggcgct taaatgagcg tcaactatggg gccttgatcg 480
 gtctcaacag ggagcagatg gctttgaatc atgggtgaaga acaagtgagg ctctggagaa 540
 gaagctacaa tgtaaccccc cctcccattg aggagtctca tccttactac caagaaatct 600
 acaacgaccg gaggtataaa gtatgcgatg tgcccttgga tcaactgcca cggtcggaaa 660
 gcttaaagga tgttctggag agactccttc cctattggaa tgaaaggatt gctcccgaag 720
 tattacgtgg caaaaccatt ctgatatctg ctcattggaaa tagcagtagg gcactcctaa 780
 aacacctgga aggtatctca gatgaagaca tcatcaacat tactcttctt actggagtcc 840
 ccattcttct ggaattggat gaaaacctgc gtgctgttgg gcctcatcag ttcctgggtg 900
 accaagaggc gatccaagca gccattaaga aagtagaaga tcaaggaaaa gtgaaacaag 960
 ctaaaaaata gtcttttctca actgttggct aagaagaaat gcaaaagaag tggcatagga 1020
 gtgtgttatg ggtgctgaac tctctctctt tttccccgat tttccagagc taggctgtgg 1080
 agtagagttt gtataggtaa ctaggtaact tattgtggcc cagataaggc tttaggatgc 1140
 ctcaagtgctt atgtcatagc cttatgagtt agctttcttg ctagccccct agtcgggtcac 1200
 caaactagta actagtgggg cttaatgaag gtcataagtt tctgagatgg gagagcaaca 1260
 agtagagatg aagttaaagg tatttatcat tcaagaaatc attattgagt caccattgac 1320
 aggcaactatt ctaatcagta gttcacttta atatttaata agattttctg ggataacagt 1380
 aagggatatt agataatata ccgtatgtat ttattactag tcttttcctc taggaaaagg 1440
 gatactttga taattaaggc cagaggccca ttagttgaga aagtcacaga tatatttctc 1500
 caagaaagcc aacaaccacc accacaatga cagaaatgac aacaaggccc ttttaacttgt 1560
 cttctagttt agagacatcc ttcatttgac atttagtaga attcctcttt ggccacaaga 1620

ataagcagca aataaacaac tatggctggt gaggttctca ttttggttg ttttaatttt 1680
 ttgaactttg ggtacctgta attagtttaa aaataaagtt cctgataata aagtgactga 1740
 aaatggcaaa aaaaaaaaaa aaaa 1764

<210> 420
 <211> 2154
 <212> DNA
 <213> Homo sapiens

<400> 420
 atataaccgc gtggcccgcg cgcgcgcttc cctcccgcg cagtcaccgg cgcggtctat 60
 ggctgcgact tctctaattgt ctgctttggc tgcccggtg ctgcagcccg cgcacagctg 120
 ctcccttcgc cttcgccctt tccacctgcg ggcagttcga aatgaagctg ttgtcatttc 180
 tggaaggaaa ctggcccagc agatcaagca ggaagtgcg caggaggtag aagagtgggt 240
 ggctcaggc aacaaacggc cacacctgag tgtgatcctg gttggcgaga atcctgcaag 300
 tcactcctat gtcctcaaca aaaccagggc agctgcagtt gtgggaatca acagtgcagc 360
 aattatgaaa ccagcttcaa tttcagagga agaattgttg aatttaatca ataaactgaa 420
 taatgatgat aatgtagatg gcctccttgt tcagttgcct cttccagagc atattgatga 480
 gagaaggatc tgcaatgctg tttctccaga caaggatgtt gatggctttc atgtaattaa 540
 tgtaggacga atgtgttttg atcagtattc catgttaccg gctactccat ggggtgtgtg 600
 ggaaataatc aagcgaactg gcattccaac cctagggag aatgtggttg tggctggaag 660
 gtcaaaaaac gttggaatgc ccattgcaat gttactgcac acagatgggg cgcatgaacg 720
 tcccgaggt gatgccactg ttacaatate tcacgatata actcccaaag agcagttgaa 780
 gaaacataca attcttgtag atattgtaat atctgctgca ggtattccaa atctgatcac 840
 agcagatatg atcaaggaag gagcagcagt cattgatgtg ggaataaata gagttcacga 900
 tcctgtaact gccaaacca agttggttg agatgtggat tttgaaggag tcagacaaaa 960
 agctgggtat atcactccag ttctggagg tgttggtccc atgacagtgg caatgctaata 1020
 gaagaatacc attattgctg caaaaaaggt gctgaggctt gaagagcgag aagtgtgtaa 1080
 gtctaaagag cttggggtag ccactaatta actactgtgt cttctgtgtc acaaacagca 1140
 ctccaggcca gctcaagaag caaagcaggc caatagaaat gcaatatttt taatttatcc 1200
 tactgaaatg gtttaaaatg atgccttgta tttattgaaa gcttaaatgg gtgggtgttt 1260
 ctgcacatac ctctgcagta cctcaccagg gagcattcca gtatcatgca gggctcctgtg 1320
 atctagccag gagcagccat taacctagtg attaatatgg gagacattac catatggagg 1380
 atggatgctt cactttgtca agcacctcag ttacacattc gccttttcta ggattgcatt 1440

tcccaagtgc tattgcaata acagttgata ctcatttttag gtaccagacc ttttgagttc 1500
 aactgatcaa accaaaggaa aagtgttgct agagaaaatt ggggaaaagg tgaaaaagaa 1560
 aaaatggtag taattgagca gaaaaaaatt aatttatata tgtattgatt ggcaaccaga 1620
 tttatctaag tagaactgaa ttggctagga aaaaagaaaa actgcatgtt aatcattttc 1680
 ctaagctgtc cttttgaggc ttagtcagtt tattgggaaa atgttttagga ttattccttg 1740
 ctattagtagc tcatttttatg tatgttaccc ttcagtaagt tctccccatt ttagttttct 1800
 aggactgaaa ggattctttt ctacattata catgtgtgtt gtcataatttg gcttttgcta 1860
 tatactttta cttcattgtt aaatttttgt attgtatagt ttctttggtg tatcttaaaa 1920
 cctatttttg aaaaacaaac ttggcttgat aatcatttg gcagcttggg taagtacgca 1980
 acttactttt ccaccaaaga actgtcagca gctgcctgct tttctgtgat gtatgtatcc 2040
 tgttgacttt tccagaaatt ttttaagagt ttgagttact attgaattta atcagacttt 2100
 ctgattaaag ggttttcttt cttttttaat aaaacacatc tgtctggtat ggta 2154

<210> 421

<211> 2960

<212> DNA

<213> Homo sapiens

<400> 421

ggcacgaggg tgtgcgtgat ggagaaaatt gggcaccagg gctgctcccg agattctcag 60
 atctgatttc cacgcttgct accaaaatag tctgggcagg ccacttttg aagtaggcgt 120
 tatctagtga gcaggcggcc gctttcgatt tcgctttccc ctaaattggct gagcttctcg 180
 ccagegcagg atcagcctgt tcctgggact ttccgagagc ccgcccctcg ttcctcccc 240
 cagccgccag taggggagga ctcggcggta cccggagctt caggccccac cggggcgagg 300
 agagtcccag gcccggccgg gaccgggacg gcgtccgagt gccaatggct agctctaggt 360
 gtcccgtcc ccgcggtg cgtgcctcc ccggagcttc tctcgcatgg ctggggacag 420
 tactgtact tctcgccgac tgggtgctgc tccggaccgc gctgccccgc atattctccc 480
 tgctggtgcc caccgcgtg ccactgctcc ggggtctggc ggtgggcctg agccgctggg 540
 ccgtgctctg gctgggggccc tgcggggctc tcagggaac ggttggtcc aagagcgaaa 600
 acgcagggtgc ccagggtgg ctggctgctt tgaagccatt agctgcggca ctgggcttgg 660
 ccctgccggg acttgcttg ttccgagagc tgatctcatg gggagcccc ggggtccgagg 720
 atagcaccag gctactgcac tggggaagtc accctaccgc cttcgttgtc agttatgcag 780
 cggcactgcc cgcagcagcc ctgtggcaca aactcgggag cctctgggtg cccggcggtc 840
 agggcggtc tggaaaccct gtgcgtcggc ttctaggctg cctgggctcg gagacgcgcc 900

gcctctcgct gttcctggtc ctggtggtec tctcctctct tggggagatg gccattccat	960
tctttacggg ccgcctcact gactggattc tacaagatgg ctcagccgat accttcactc	1020
gaaacttaac tctcatgtcc attctcacca tagccagtgc agtgctggag ttcgtgggtg	1080
acgggatcta taacaacacc atggggccacg tgcacagcca cttgcaggga gaggtgtttg	1140
gggctgtcct gcgccaggag acggagtttt tccaacagaa ccagacaggt aacatcatgt	1200
ctcgggtaac agaggacacg tccaccctga gtgattctct gagtgagaat ctgagcttat	1260
ttctgtggta cctggtgcga ggcctatgtc tcttggggat catgctctgg ggatcagtgt	1320
ccctcaccat ggtcaccctg atcaccctgc ctctgctttt ccttctgccc aagaagggtg	1380
gaaaatggta ccagttgctg gaagtgcagg tgcgggaatc tctggcaaag tccagccagg	1440
tggccattga ggctctgtcg gccatgccta cagttcgaag ctttgccaac gaggagggcg	1500
aagcccagaa gtttagggaa aagctgcaag aaataaagac actcaaccag aaggaggctg	1560
tggcctatgc agtcaactcc tggaccacta gtatttcagg tatgctgctg aaagtgggaa	1620
tcctctacat tgggtgggcag ctggtgacca gtggggctgt aagcagtggg aaccttgtca	1680
catttgttct ctaccagatg cagttcacc caggctgtgga ggtactgtc tccatctacc	1740
ccagagtaca gaaggctgtg ggctcctcag agaaaatatt tgagtacctg gaccgcaccc	1800
ctcgtgccc acccagtggc ctgttgactc ccttacactt ggagggcctt gtccagtcc	1860
aagatgtctc ctttgccctac ccaaaccgcc cagatgtctt agtgctacag gggctgacat	1920
tcaccctacg ccctggcgag gtgacggcgc tgggtgggacc caatgggtct ggggaagagca	1980
cagtggctgc cctgctgcag aatctgtacc agcccaccgg gggacagctg ctgttggatg	2040
ggaagcccc tccccaatat gagcaccgt acctgcacag gcaggtggct gcagtgggac	2100
aagagccaca ggtatttgga agaagtcttc aagaaaatat tgcctatggc ctgaccaga	2160
agccaactat ggaggaaatc acagctgctg cagtaaagtc tggggcccat agtttcatct	2220
ctggactccc tcagggtat gacacagagg tagacgaggc tgggagccag ctgtcagggg	2280
gtcagcgaca ggcagtggcg ttggcccag cattgatccg gaaaccgtgt gtacttatcc	2340
tggatgatgc caccagtgcc ctggatgcaa acagccagtt acaggtggag cagctcctgt	2400
acgaaagccc tgagcgggtac tcccgctcag tgcttctcat caccagcac ctcagcctgg	2460
tggagcaggc tgaccacatc ctctttctgg aaggaggcgc tatccgggag gggggaaccc	2520
accagcagct catggagaaa aaggggtgct actgggccc ggtgcaggct cctgcagatg	2580
ctccagaatg aaagccttct cagacctgc cactccatct ccctcccttt tcttctctct	2640
gtggtggaga accacagctg cagagtaggc agctgcctcc aggatgagtt acttgaaatt	2700
tgccttgagt gtgttacctc ctttccaagc tcctcgtgat aatgcagact tcctggagta	2760

```

caaacacagg atttgtaatt ccttactgta acggagttta gagccagggc tgatgctttg 2820
gtgtggccag cactctgaaa ctgagaaatg ttcagaatgt acggaaagat gatcagctat 2880
tttcaacata actgaaggca tatgctggcc cataaacacc ctgtaggttc ttgatattta 2940
taataaaatt ggtgttttgt 2960

```

```

<210> 422
<211> 456
<212> DNA
<213> Homo sapiens

```

```

<400> 422
gcacgagtgg agttgggtgt cggctttttt agccagcttt tgtgggaatt gcctttgacc 60
tattaaagaa ggaaagtggg taatggagtc ccagccactc aagagactgg atatcccccg 120
agaatggctt gggttaccag ctatggaccc ttggaagatg aatctaatac ttctcactgg 180
tttttctttg caaattcatt tgcttttatt tttctaataa caataaactc tattttccat 240
gttctcaggg cccctgggta gacagacaca gcttgatttc agagcagaca taggcgaaga 300
aaacatggca ttgagtgtgc tgagtccaga caaatgttat ttatatacac atccaaattt 360
gaagagaaaa tgtattttctt taggtttcaa aactgtaat agatataaag caaaaataaa 420
aacctgttgc aaagttaaaa aaaaaaaaaa aaaaaa 456

```

```

<210> 423
<211> 691
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (140)..(140)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (394)..(394)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (397)..(397)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature

```

<222> (401)..(401)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (404)..(404)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (412)..(412)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (536)..(536)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (569)..(569)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (581)..(581)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (615)..(615)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (619)..(619)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (640)..(640)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (651)..(651)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (662)..(662)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (677)..(677)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (680)..(680)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (687)..(687)

<223> n is a, c, g, t or u

<400> 423

```

tttttttttt tttttttttt tttttttttt ttttncaaaa tataaaacttt attatttttac      60
attcaagtga aacttccatc tggagggggt aaacacagct gccggccaca ttcactgatt      120
tattactttg ttgccttttn cgttcacctg atggaagaat tcaaccctct taaaaacata      180
acaacaacaa aaacagctgg agagtcccag ccgtaatact aggtgtagac acgcacaagc      240
acacacacaa attcaaaaac ttctacatag aaaaataaag gataaacatt atccatctat      300
tttgtagtgt gtaatgcaac ttttatatac ataaattttt tttttttttt tttttttttt      360
ttttttttta ctgttttcag tcaactgcaa tttncnccc ncnctggga tntaaggatc      420
cagggaggag gctgccacag tgaaacaaaa aagctacatt ctgccagggt agggaaaaaa      480
aaagcaattt ctcgtcccc ttcccaagtc cttcctgtcc accaccacct cggatnttcc      540
cgcacacagc cttccggtga gcgggcgtnc cgtcccctcc nctctctaag gcattgggga      600
acaaaaggcc catangcanc ccctgccaaa aaaaaaatn atctaccttt naagaaaagg      660
cnaggggctg ggatccngcn aaaaatnact t      691

```

<210> 424

<211> 1705

<212> DNA

<213> Homo sapiens

<400> 424

```

ccagccctga gattcccacg tgtttccatt cagtgatcag cactgaacac agaggactcg      60
ccatggagtt tgggctgagc tgggttttcc ttgttgctat tttaaaagggt gtccagtgtg      120
aggtgcagtt ggtggagtct gggggagggt tggtacggcc tgggggggtcc ctgagactct      180
cctgtgcaac ctctggattc acctttgatg attccggcgc gagctgggtc cgccaagctc      240
caggggaaggg actggagtgg gtctctagta ttaattggaa tggtagtagc acaaattatg      300
cagactctgt gaagggccga ttcaccatct ccagagacaa cgccaagaac tccctatatc      360
tacaaatgaa cagtctgaga gtcgaggaca cggccttgta ttactgtgcg agagaccgga      420
ctaaatattg tagtggtggc agctgcctgg ggtactacat ggacgtctgg ggcaagggga      480
ccacggtcac cgtctcctca gcatccccga ccagcccaa ggtcttcccg ctgagcctct      540
gcagcaccca gccagatggg aacgtgggtca tcgcctgcct ggtccagggtc ttcttcccc      600
aggagccact cagtgtgacc tggagcgaaa gcggacaggg cgtgaccgcc agaaacttcc      660

```

caccagcca ggatgcctcc ggggacctgt acaccacgag cagccagctg accctgccgg	720
ccacacagtg cctagccggc aagtccgtga catgccacgt gaagcactac acgaatccca	780
gccaggatgt gactgtgccc tgcccagttc cctcaactcc acctaccca tctccctcaa	840
ctccacctac cccatctccc tcatgtgtgc acccccgact gtcactgcac cgaccggccc	900
tcgaggacct gctcttaggt tcagaagcga acctcacgtg cacactgacc ggccctgagag	960
atgcctcagg tgtcaccttc acctggacgc cctcaagtgg gaagagcgct gttcaaggac	1020
cacctgaccg tgacctctgt ggctgtctaca gcgtgtccag tgtcctgccg ggctgtgccg	1080
agccatggaa ccatgggaag accttcactt gcactgctgc ctaccccgag tccaagaccc	1140
cgctaaccgc caccctctca aaatccggaa acacattccg gcccggagtc cacctgctgc	1200
cgccgccgtc ggaggagctg gccctgaacg agctggtgac gctgacgtgc ctggcacgtg	1260
gcttcagccc caaggatgtg ctgggttcgct ggctgcaggg gtcacaggag ctgccccgcg	1320
agaagtacct gacttgggca tcccggcagg agcccagcca gggcaccacc accttcgctg	1380
tgaccagcat actgcgcgtg gcagccgagg actggaagaa gggggacacc ttctcctgca	1440
tggtgggcca cgaggccctg ccgctggcct tcacacagaa gaccatcgac cgcttggcgg	1500
gtaaaccac ccatgtcaat gtgtctgttg tcatggcgga ggtggacggc acctgctact	1560
gagccgccc cctgtcccca cccctgaata aactccatgc tccccaaaa aaaaaaaaaa	1620
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1680
aaaaaaaaa aaaaaaaaaa aaaaaa	1705

<210> 425

<211> 4498

<212> DNA

<213> Homo sapiens

<400> 425

gagggtctg acagacacaa gtcaccttct tattgcactt agctctccct ggggacttaa	60
atthttggcag tgttcctctt tacatgatat cctccaagat gatgagttct aatcctgagg	120
aagacccttt ggacacattt ctccagtaca ttgaggatat ggggatgaag gcctacgatg	180
gcttggttat tcagaatgcg tcagatattg ctcgagagaa tgatcgcttg agaaatgaaa	240
ctaacctagc ctatthtgaag gagaagaatg aaaaacgccg aagacaagaa gaagcaataa	300
agcgcatagg tggagaagta gggcgaggcc acgaaggaag ttacgtgggc aaacatttcc	360
gcatgggatt catgacaatg cctgtctctc aggacagact tccccatcct tgctccagtg	420
gctthttctgt gagatcacag tccctgcact cgggtggggg cacagacgat gacagcagct	480
gtggctcacg gagacaacca ccacccaaac ccaagaggga cccagcacc aagctgagca	540

cctcatcaga gacagtcagc agcactgcag ccagtaagag cgggaaaacc cctgagagga	600
ctgaagcgtc agctaaacca agaccccaca gcgatgaata ttccaagaag attcctcctc	660
ccaaaccgaa gcgaaatccg aacactcagc tgagcacatc tttcgatgaa acgtacatca	720
aaaagcatgg gccccggagg acgtcgtgctc cgcgggactc ctccttgctc cagatgggca	780
gccccgcggg agaccccgag gaagaggagc ccgtgtacat cgagatgggtg gggaacattc	840
tcagagactt caggaaggag gacgatgacc agagcgaggc cgtctacgag gaaatgaagt	900
accctatctt tgacgacttg ggccaagacg ccaaagtga cttcgaccat cacagctgtt	960
cttcgcagtg tgctactccc acgggtgcctg acttggaactt cgccaaggcc tcagtgccat	1020
gcccccccaa ggggctgctt tgcgacatcc ctccgccctt cccaacctg ctttctcaca	1080
gacccccgct gctggtatctt cccccgccc ccgtgcattg ctcccccaac tccgacgagt	1140
ccccgcttac ccctctggag gtcacgaagc ttcccgctgt ggaaaacgtg tcttacatga	1200
aacagccagc cggggcgctc ccctccacgc tgcgctccca cgtccccggc catgcgaaac	1260
tggagaaaga gcaggccgcg gccctgggac ctgcctctgc caccctctgc ctctcctcgt	1320
cgccccacc cccgtctacg ctgtaccgaa ccagctctcc ccatggctac ctaaaagtc	1380
actccacctc tccctcccc gtcagcatgg ggaggtccct gactccccctg agcctcaaaa	1440
ggcctcccc ttacgacgct gtgcattcgg gcagcctctc aaggagctct ccttcagtgc	1500
ctcactcgac cccagaccc gtgtcgcaag atggggccaa gatgggtcaac gccgcggtga	1560
acacctacgg ggcagccccg ggtggctccc ggtcccgagc acccacgagc ccgctggagg	1620
agctgaccag cctctctctc tccggccgca gcctgctgct caagtcgtcc agtggccggc	1680
gctccaaaga gcctgcagag aaatcaacag aggaactgaa agtccgaagc cacagcacgg	1740
agccattacc aaagttggac aacaaggaaa gagggcacca tggggcgctc tccctccagag	1800
agcctgtcaa agctcaggaa tgggatggaa caccagggcc acctgtgggtc accagtcgac	1860
taggaagatg ctctgtgagc cccaccttgt tagcgggaaa ccacagttca ggcctaaag	1920
taagctgcaa attaggccgg tctgcgtcga cgtcaggtgt gcctcctcca tcagtcactc	1980
ccctcaggca aagcagtgac ctgcaacaga gccaggtacc atcatcgta gccaatcgtg	2040
attgacttcc tgtgatacaa cttgccaaat gcttcccacc tctgtctgtc ctgttgctgt	2100
agacaacttt cgcatttgct tttatcttctc tatgtgtgta tgggttaggg gatgcggggg	2160
atgagttctg gcagtctgtg ttttcatttg aaaaagaata tctttcttcc ttgtgattgg	2220
tggtgaaact ttctttgctg tttgttacca aatcgttttt gtctctgggt tccatcatc	2280
tgtaataata atgtagtaaa cttgtactat atgtattggc ttagtgggtc ttttttaa	2340
tctttctctc tttcatgttt tgtgtacttt tatactgtct ctgaaaattt atcaatattt	2400

gataaatttta tctactttgt tttatgtaga tttcttttta aatgttttgt ccagaacact	2460
cgcacagatg ttgtcaatga atttgtacat atttcttagc tcttatecta ttataactgta	2520
atattttctgg tggtttttatt tttatttagc ttggagcatg actgtaagac actgttgaat	2580
attgatgtcc ttataaatat tcatatcccg attcatttgg attgagtatg gcagctagtc	2640
tttctttcttt cttaggctat tgactggcct aagacagttt gactggccag acaaattgac	2700
tggccagata atctagatat ttaacaaaaa ctgcagatta ataaggcaac ctttaaataga	2760
atgacttttc tctcttatac caacaatatc agaaatgttc tcagaaaggg aatgtaagtg	2820
ttcatgcatg gtaaatgaga tctcaattat cacttggaga aaagagacaa gaaataaagg	2880
cataaactga aatatcattt aatcctttac agcataatat gttgctctga tgttcgtttg	2940
ggtacatggg tgtggatggg gaattagtag ggggaaaaat cactacacat aaatgtccta	3000
ccttttagctc acccaatagg aattcaatac attgacttaa tttgtgaggc ttaattgtcg	3060
ttactgttaa gtattatagg tgtaagtag ggtgggtgtca ttctggaatg ttttctctct	3120
gcttcctagc ttcaatcttt gcattcatga aactcttctg aaatagcaac ttataaaaca	3180
ctgatgatac ctccaaggga actgccatt actgatgaga aaattacata ttcatctatt	3240
attttaaagt tcaggctatt ttaaaaacat aactaagtag aataattgcg ttttcttcta	3300
atgagagaca ttgtgcctct tagtgttttt gtctgactta aatatgcaaa atagttgatt	3360
tataaatata tgaggatatct gcaaatacaa gaaatgagag gcttctctca agggatatctc	3420
aagtaccatt tagaatttct tgtgtcttaa tttaaaattt aaatgccttt atataaatgt	3480
taaatgcctt tataactaaa tgtaccaact caaacacttt ttggatataa aagaagtaga	3540
aacagtaaga cactgaataa aataaataag ataaactgcc aacttagcta attaaagcta	3600
ttccaaaaat attgtactta ccaacattta aagcttaaaa acattgggta ctgaaagaag	3660
agaagttag ctaattggca gaggattgca ctaatacaat caagttttca agtttatgac	3720
ccttgctagt atattacctt caatatctca gagatgtttt gtattatttg ttttgtttg	3780
cttttttctt agttgtcttt atagctgttt caccctaagc cccttcaaac tctcaatgaa	3840
agcaggttct tgggataaac ttccagaata gagacaaggc atacccttg tgcctttgca	3900
ttatcaactc tttgttcacc tgatgggaag ttcttcgttt ttcaaaatgt agcaaggag	3960
aaagcccagg acgcctttat atgctgttag tttccttacc tgctgataga gattctgaca	4020
cacagtcaaa tcatacatgg gctgtcagag ctataaatta gaaggctggc ctctaggctt	4080
ctcctctgtg gcttatagcc agttgtaata tacatgcatt cctatactct agagatgaag	4140
tggtgaagcat agctcatatg aacactgctc tgaactctc tgacttagca ttcaacttaa	4200

gtcaagaaat acttattggc tgggcgtggt ggctcacgcc tgtaatccca gcactctggg 4260
 aggcagaggt gggtagatca caaggctcagg agattgagac catcctggct aacacgggtga 4320
 gaccccatct ctactaaaaa tacaaaaaat tagccagggtg tggtaggggg cgctgtagt 4380
 cccagctact tgggaggctg aggcaggaga atgtggtgaa cctgggagggt ggagcttgca 4440
 gtgagctgag atcgaccac tgcactccag cctgggtgac agagcgagac tccatctc 4498

<210> 426
 <211> 3478
 <212> DNA
 <213> Homo sapiens

<400> 426
 attttccggg ccgggcgcac taagggtgcgc ggccccgggg cccagtatat gacccgccgt 60
 cctgctatcc ttcgcttccc ccgccccatg tggctgcggg gccgcggcgg cgctgccac 120
 tatggcccg aaagtagtta gcaggaagcg gaaagcgccc gcctcgccgg gagctgggag 180
 cgacgctcag ggcccgcagt tggctgggat cactcgcttc aaaaaaggaa aagacttcct 240
 cctgtgaaga gatccttagt atactacttg aagaaccggg aagtcaggct acagaatgaa 300
 accagctact ctcgagtgtt gcatgggtat gcagcacagc aacttcccag tctcctgaag 360
 gagagagagt ttcaccttgg gacccttaat aaagtgtttg catctcagtg gttgaatcat 420
 aggcaagtgg tgtgtggcac aaaatgcaac acgctatttg tcgtagatgt ccagacaagc 480
 cagatcacca agatccccat tctgaaagac cgggagcctg gaggtgtgac ccagcagggc 540
 tgtggtatcc atgccatcga gctgcatcct tctagaacac tgctagccac tggaggagac 600
 aacccaaca gtcttgccat ctatcgacta cctacgctgg atcctgtgtg tgtaggagat 660
 gatggacaca aggactggat cttttccatc gcatggatca gcgacactat ggcagtgtct 720
 ggctcacgtg atggttctat gggactctgg gaggtgacag atgatgtttt gacaaaagt 780
 gatgagagac acaatgtgtc acgggtccct gtgtatgcac acatcactca caaggcctta 840
 aaggacatcc ccaaagaaga cacaaacctt gacaactgca aggttcggggc tctggccttc 900
 aacaacaaga acaagggaact gggagcagtg tctctggatg gctactttca tctctggaag 960
 gctgaaaata cactatctaa gtcctctccc accaaactgc catattgccg tgagaatgtg 1020
 tgtctggctt atggtagtga atggtcagtt tatgcagtgg gctcccaagc tcatgtctcc 1080
 ttcttggatc cacggcagcc atcatacaac gtcaagtctg tctgttccag ggagcgaggc 1140
 agtggaatcc ggtcagttag tttctacgag cacatcatca ctgtgggaac agggcagggc 1200
 tccctgctgt tctatgacat ccgagctcag agatttctgg aagagaggct ctcagcttgt 1260
 tatgggtcca agcccagact agcaggggag aatctgaaac taaccactgg caaaggctgg 1320

ctgaatcatg atgaaacctg gaggaattac ttttcagaca ttgacttctt ccccaatgct	1380
gtttacaccc actgctacga ctcgctcgtga acgaaactct ttgtggcagg aggtccctc	1440
ccttcagggc tccatggaaa ctatgctggg ctctggagtt aatgacaact ccccaaatgc	1500
agagattttac actaacttcc attctcagtt tccttgtttc ttttgatttt ttttccta	1560
tgtgtgaggc tcttggtgtt tagtggaac accaaagttt gcctatagtt taggcactta	1620
ataggaagaa gctctgtaca gaaatctgaa agttgttttg ctttttgttt tccccttg	1680
taatcaaat tttactatct tttattatct ctggcttttc aaccaaacat tgttgcta	1740
ccctattttt ccttaagtga cacacattct cctgtctctg gcttcttcag gctgaaatga	1800
catagtcttt ctcaccctta cttcactctt gagaggtagg gctcctttat aattacatgg	1860
ttgctctcag actttctgtg aaagtttggg agctgtgtgt gtctgtgtgt gtgtgagaga	1920
gagatcttgt ctgctgtgtgt gtgtgtgatc ttgtgtgcct gtaggtactg tgtgtcactg	1980
aaattacctg gagtgaggat tacttgtaat taaaatattt ataaaagaaa caactttatt	2040
cacagagtcc agctttggga ctagtctgta tcttgttttt taagtctaac aacactgata	2100
ataggaagta aaaacagaaa ggaaaagaaa ttaccactgg gaaaatcttt ttagttagat	2160
tgtaggcttc ctggggcctc ccatgccagg actgcaaagt gatccagccc tacctgtctt	2220
cccacctgtg tgtccccctg gtgggaagtt ggtgtcactt ccccttccca ccctcacatc	2280
tgcttagcca gtagccacac ccctaaaaca tcagactcac catccagggtg cagctccaga	2340
ggctacaaaa ggcttcattg gacttgaatc cccatcctag cttctctctc cttccccca	2400
agacctgatc tggttttaag gggcctggag ctgggagttt caagtctgct aagattcaca	2460
tccatagccc ccgtggcttt gaggagaatc ctctctgcca ttcttccaat ctccccagt	2520
ggttttgcta ttattttcta aattgggtta agtctaagaa ggtgggggtg agcaggggt	2580
ttatctgtgt gtagtgagt cttcatgtgt ggaatattca ttttcttact gcagtgggac	2640
ttgggggtga agccaccct cctactctgt tggcttagcc ctgagatggg gacaggctgg	2700
cctgcagtca gcatcattgt gcatgtgaca gcatcaatgt gattagtaat ttgtctgttc	2760
ctcccttgaa ctgtctgttt agtctgaggt ttttaaactt gcaggcagct gactgtgatg	2820
tccacttggt ccctgatttt tacacatcat gtcaaagata acagctgttc ccaccacca	2880
gttcctctaa gcacatactc tgcttttctg tcaacatccc attttgggga aaggaaaagt	2940
catattttatt cctgcacccc agttttttta cttgttctcc cagttgtccc cctcttctct	3000
gggtgtaaga agggaaattg gaaaaaaat tatatatata ttctcctttt aatggtgggg	3060
ggctactgga gaggagagac agcaagtcca ccctaacttg ttacacagca cataccacag	3120
gttccggaat tctcatcttc gaacctagag aaataggtgc tataaacagg gaattaagca	3180

aaatgctgga tgctatagat cttttaattg tcttaatttt ttttctatta ttaaactaca 3240
 ggctgtagat ttcttagttc tcacagaact tctatcattt taaactgact tgtatatatta 3300
 aaaaaaaaaat cttcagtagg atgttttgta ctattgctag accctcttct gtaatgggta 3360
 atgcgtttga ttgtttgaga ctttctgttt ttaaaaatgt agcacttgac tttttgccag 3420
 gaaaaaaaaata aaaattattc cgtgcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 3478

<210> 427
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 427
 atttggccct cgaggccaag aattcggcac gaggcgctca gtttcagcag ccagataatg 60
 gctatatatta tctaacatct tgagttcaaa agcatgacgg cgcatttttg ggactgaac 120
 aacatcaatg caggcgtcca agtagatgca acctttcgat tcttttgaat ttttctcatc 180
 tttataggaa ttgagaatat atgaaccgtc aggaagttgg gtcaagtaaa aatatcgtct 240
 cttgaatacc ttcattggtta ctgtgatggg actatttaca tttgctttat gcaaccagcc 300
 ttgttttatc acaccaccct tctgagaaca taaagaagat gagtcctcat ctttctcaca 360
 gtcttcatct atctcaaata catgattagg aatcttttct ggtctcaaag atttacatgg 420
 caacattcga aagtcgccag agaagtcctc atacttgtag tttaccacgt gccaatctgt 480
 gctatagggt ttaatacact ctttaacaaa taaactctgg gccctctttt cagcatcttc 540
 tggtagagta aaactgaacc gttctggggt gacgacctat aacc 584

<210> 428
 <211> 1679
 <212> DNA
 <213> Homo sapiens

<400> 428
 gtttggttggc tgcggcagca ggtagcaaag tgacgccgag ggcctgagtg ctccagtagc 60
 caccgcatct ggagaaccag cggttaccat ggaggggatc agtatataca cttcagataa 120
 ctacaccgag gaaatgggct caggggacta tgactccatg aaggaaccct gtttccgtga 180
 agaaaatgct aatttcaata aaatcttctt gccaccatc tactccatca tcttcttaac 240
 tggcattgtg ggcaatggat tggatcctct ggtcatgggt taccagaaga aactgagaag 300
 catgacggac aagtacaggc tgcacctgtc agtggccgac ctctcttttg tcatcacgct 360
 tcccttctgg gcagttgatg ccgtggcaaa ctggtacttt gggaaacttc tatgcaaggc 420
 agtccatgtc atctacacag tcaacctcta cagcagtgtc ctcatcctgg ccttcatcag 480

tctggaccgc	tacctggcca	tcgtccacgc	caccaacagt	cagaggccaa	ggaagctggt	540
ggctgaaaag	gtggtctatg	ttggcgtctg	gatccctgcc	ctcctgctga	ctattcccga	600
cttcattctt	gccaacgtca	gtgaggcaga	tgacagatat	atctgtgacc	gcttctaccc	660
caatgacttg	tgggtggttg	tgttccagtt	tcagcacatc	atggttggcc	ttatcctgcc	720
tggatttgtc	atcctgtcct	gctattgcat	tatcatctcc	aagctgtcac	actccaaggg	780
ccaccagaag	cgcaaggccc	tcaagaccac	agtcactctc	atcctggctt	tcttcgcctg	840
ttggctgcct	tactacattg	ggatcagcat	cgactccttc	atcctcctgg	aaatcatcaa	900
gcaaggggtg	gagtttgaga	acactgtgca	caagtggatt	tccatcaccc	aggccctagc	960
tttcttccac	tgttgtctga	accccatcct	ctatgctttc	cttggagcca	aatttaaaac	1020
ctctgcccag	cacgcactca	cctctgtgag	cagaggggtc	agcctcaaga	tcctctccaa	1080
aggaaagcga	ggtggacatt	catctgtttc	cactgagtct	gagtcttcaa	gttttctactc	1140
cagctaacac	agatgtaaaa	gacttttttt	tatacgataa	ataacttttt	tttaagttac	1200
acatttttca	gatataaaaag	actgaccaat	attgtacagt	ttttattgct	tggtggattt	1260
ttgtcttggt	tttctttagt	ttttgtgaag	tttaattgac	ttatttatat	aaattttttt	1320
tgtttcatat	tgatgtgtgt	ctaggcagga	cctgtggcca	agttcttagt	tgctgtatgt	1380
ctcgtggtag	gactgtagaa	aagggaactg	aacattccag	agcgtgtagt	gaatcacgta	1440
aagctagaaa	tgatccccag	ctgtttatgc	atagataatc	tctccattcc	cgtggaacgt	1500
ttttcctggt	cttaagacgt	gattttgctg	tagaagatgg	cacttataac	caaagcccaa	1560
agtggatatag	aaatgctggt	ttttcagttt	tcaggagtgg	gttgatttca	gcacctacag	1620
tgtacagtct	tgtatttaagt	tgtaataaaa	agtacatggt	aaacttactt	agtgttatg	1679

<210> 429

<211> 1702

<212> DNA

<213> Homo sapiens

<400> 429

agactcaaca	agagctccag	caaagacttt	cactgtagct	tgacttgacc	tgagattaac	60
tagggaatct	tgagaataaa	gatgagctct	gaaaattggt	tcgtagcaga	gaacagctct	120
ttgcatccgg	agagtggaca	agaaaatgat	gccaccagtc	cccatttctc	aacacgtcat	180
gaagggctct	tccaagttcc	tgctctgtgt	gctgtaatga	atgtggctct	catcaccatt	240
ttaatcatag	ctctcattgc	cttatcagtg	ggccaataca	attgtccagg	ccaatacaca	300
ttctcaatgc	catcagacag	ccatgtttct	tcatgctctg	aggactgggt	tggctaccag	360
aggaaatgct	actttatttc	tactgtgaag	aggagctgga	cttcagccca	aaatgcttgt	420

tctgaacatg	gtgctactct	tgctgtcatt	gattctgaaa	aggacatgaa	ctttctaaaa	480
cgatacgag	gtagagagga	acactggggt	ggactgaaaa	aggaacctgg	tcacccatgg	540
aagtgggtcaa	atggcaaaga	atttaacaac	tgggtcaacg	ttacaggggtc	tgacaagtgt	600
gtttttctga	aaaacacaga	ggtcagcagc	atggaatgtg	agaagaattt	atactggata	660
tgtaacaaac	cttacaaata	ataaggaaac	atgttcactt	attgactatt	atagaatgga	720
actcaaggaa	atctgtgtca	gtggatgctg	ctctgtgggtc	cgaagtcttc	catagagact	780
ttgtgaaaaa	aaattttata	gtgtcttggg	aattttcttc	caaacagAAC	tatggaaaaa	840
aaggaagaaa	ttccaggaaa	atctgcactg	tgggctttta	ttgccatgag	ctagaagcat	900
cacaggttga	ccaataacca	tgcccaagaa	tgagaagaat	gactatgcaa	cctttggatg	960
cactttatat	tattttgaat	ccagaaataa	tgaaataact	aggcgtggac	ttactattta	1020
ttgctgaatg	actaccaaca	gtgagagccc	ttcatgcatt	tgcactactg	gaaggagtta	1080
gatgttggtg	ctagatactg	aatgtaaaca	aaggaattat	ggctggtaac	ataggttttt	1140
agtctaattg	aatcccttaa	actcagggag	cattttataaa	tggacaaatg	cttatgaaac	1200
taagatttgt	aatattttctc	tctttttaga	gaaatttgcc	aatttacttt	gttatttttc	1260
cccaaaaaga	atgggatgat	cgtgtattta	tttttttact	tcctcagctg	tagacagggtc	1320
cttttcgatg	gtacatat	ctttgccttt	ataatctttt	atacagtgtc	ttacagagaa	1380
aagacataag	caaagactat	gaggaatatt	tgcaagacat	agaatagtgt	tggaaaatgt	1440
gcaatatgtg	atgtgggcaa	tctctattag	gaaatattct	gtaatcttca	gacctagaat	1500
aatactagtc	ttataatagg	tttgtgactt	tcctaaatca	attctattac	gtgcaatact	1560
tcaatacttc	atttaaaaata	tttttatgtg	caataaaatg	tatttgtttg	tattttgtgt	1620
tcagtacaat	tataagctgt	ttttatatat	gtgaaataaa	agtagaataa	acacaaaaaa	1680
aaaaaaaaaa	aaaaaaaaaa	aa				1702

<210> 430

<211> 1237

<212> DNA

<213> Homo sapiens

<400> 430

gctgcagagg	attcctgcag	aggatcaaga	cagcacgtgg	acctcgca	gcctctccca	60
caggtaccat	gaaggctctc	gcggcagccc	tcgctgtcat	cctcattgct	actgccctct	120
gcgctcctgc	atctgcctcc	ccatattcct	eggacaccac	accctgctgc	tttgcctaca	180
ttgcccgc	actgccccgt	gcccacatca	aggagtattt	ctacaccagt	ggcaagtgct	240
ccaaccagc	agtcgtcttt	gtcaccggaa	agaaccgcca	agtggtgtgc	aaccagaga	300

agaaatgggt tcgggagtac atcaactctt tggagatgag ctaggatgga gagtccttga 360
 acctgaactt acacaaattt gcctgtttct gcttgctctt gtcctagctt gggaggcttc 420
 ccctcactat cctacccac ccgctccttg aagggccag attctaccac acagcagcag 480
 ttacaaaaac cttccccagg ctggacgtgg tggctcacgc ctgtaatccc agcacttttg 540
 gaggccaaagg tgggtggatc acttgaggtc aggagtctga gaccagcctg gccaacatga 600
 tgaaacccca tctctactaa aaatacaaaa aattagccgg gcgtggtagc gggcgctgt 660
 agtcccagct actcgggagg ctgaggcagg agaatggcgt gaaccggga ggcggagctt 720
 gcagtgaacc gagatcgcg cactgcactc cagcctgggc gacagagcga gactccgtct 780
 caaaaaaaaa aaaaaaaaaa aaaatacaaa aattagccgg gcgtggtagc ccacgcctgt 840
 aatcccagct actcgggagg ctaaggcagg aaaattgttt gaaccagga ggtggaggct 900
 gcagtgaact gagattgtgc cacttcactc cagcctgggt gacaaagtga gactccgtca 960
 caacaacaac aacaaaaagc ttccccact aaagcctaga agagcttctg aggcgctgct 1020
 ttgtcaaaag gaagtctcta ggttctgagc tctggctttg ccttggcttt gccagggtc 1080
 tgtgaccagg aaggaagtca gcatgcctct agaggcaagg aggggaggaa cactgcactc 1140
 ttaagcttcc gccgtctcaa ccctcacag gagcttactg gcaaactga aaaatcggct 1200
 taccatataa gttctcaatg caaccataaa aaaaaaa 1237

<210> 431
 <211> 1125
 <212> DNA
 <213> Homo sapiens

<400> 431
 ttctgccctc gagcccaccg ggaacgaaag agaagctcta tctcgctcc aggagcccag 60
 ctatgaactc cttctccaca agcgcttcg gtccagttgc cttctccctg gggctgctcc 120
 tgggtgttgc tgctgccttc cctgccccag tacccccagg agaagattcc aaagatgtag 180
 ccgccccaca cagacagcca ctcacctctt cagaacgaat tgacaaacaa attcgggtaca 240
 tcctcgacgg catctcagcc ctgagaaagg agacatgtaa caagagtaac atgtgtgaaa 300
 gcagcaaaga ggcactggca gaaaacaacc tgaaccttcc aaagatggct gaaaaagatg 360
 gatgcttcca atctggattc aatgaggaga cttgcctggg gaaaatcatc actggctctt 420
 tggagtttga ggtataccta gactacctc agaacagatt tgagagtagt gaggaacaag 480
 ccagagctgt gcagatgagt acaaaagtcc tgatccagtt cctgcagaaa aaggcaaaga 540
 atctagatgc aataaccacc cctgaccaa ccacaaatgc cagcctgctg acgaagctgc 600
 aggcacagaa ccagtggctg caggacatga caactcatct cattctgcgc agctttaagg 660

```

agttcctgca gtccagcctg agggctcttc ggcaaatgta gcatgggcac ctcagattgt    720
tggtgttaat gggcattcct tcttctgggc agaaacctgt ccactgggca cagaacttat    780
gttggttctct atggagaact aaaagtatga gcgtaggac actattttta ttatttttaa    840
tttattaata tttaaataatg tgaagctgag ttaatttatg taagtcatat ttatattttt    900
aagaagtacc acttgaaaca ttttatgtat tagttttgaa ataataatgg aaagtggcta    960
tgcagtttga atatcctttg tttcagagcc agatcatttc ttggaaagtg taggcttacc   1020
tcaaataaat ggctaactta tacatatttt taaagaaata tttatattgt atttatataa   1080
tgtataaatg gttttttatac caataaatgg catttttaaaa aattc                1125

```

```

<210> 432
<211> 1047
<212> DNA
<213> Homo sapiens

```

```

<400> 432
cgaattcccc tatcacctaa gtgtgggcta atgtaacaaa gagggatttc acctacatcc    60
attcagtcag tctttggggg tttaaagaaa ttccaaagag tcatcagaag aggaaaaatg   120
aaggtaatgt tttttcagac aggtaaagtc tttgaaaata tgtgtaatat gtaaaacatt   180
ttgacacccc cataatatatt ttccagaatt aacagtataa attgcatctc ttgttcaaga   240
gttccctatc actctcttta atcactactc acagtaacct caactcctgc cacaatgtac   300
aggatgcaac tcctgtcttg cattgcacta agtcttgcac ttgtcacaaa cagtgcacct   360
acttcaagtt ctacaaagaa aacacagcta caactggagc atttactgct ggattttacag   420
atgattttga atggaattaa taattacaag aatcccaaac tcaccaggat gctcacattt   480
aagttttaca tgcccaagaa ggccacagaa ctgaaacatc ttcagtgtct agaagaagaa   540
ctcaaacctc tggaggaagt gctaaattta gctcaaagca aaaactttca ctttaagacct   600
agggacttaa tcagcaatat caacgtaata gttctggaac taaagggatc tgaaacaaca   660
ttcatgtgtg aatatgctga tgagacagca accattgtag aatttctgaa cagatggatt   720
accttttgtc aaagcatcat ctcaacactg acttgataat taagtgttcc ccacttaaaa   780
catatcaggc cttctattta tttaaataat taaattttat atttattgtt gaatgtatgg   840
tttgctacct attgtaacta ttattcttaa tcttaaaact ataaatatgg atcttttatg   900
attctttttg taagccctag gggctctaaa atgggtttcac ttatttatcc caaaatattt   960
attattatgt tgaatgttaa atatagatc tatgtagatt ggtagtaaa actattttaat  1020
aaatttgata aatataaaaa aaaaaaa                1047

```

```

<210> 433

```

<211> 1242
 <212> DNA
 <213> Homo sapiens

<400> 433
 atttcatggt atacttaata aaacaaaaca tacctgtata cacacacatt cactcacatt 60
 gaagatgcaa gatgaagaaa gatacatgac attgaatgta cagtcaaaga aaaggagttc 120
 tgcccaaaca tctcaactta catttaaaga ttattcagtg acgttgccact ggtataaaat 180
 cttactggga atatctggaa ccgtgaatgg tattctcact ttgactttga tctccttgat 240
 cctgttggtt tctcagggag tattgctaaa atgccaaaaa ggaagttggt caaatgccac 300
 tcagtatgag gacactggag atctaaaagt gaataatggc acaagaagaa atataagtaa 360
 taaggacctt tgtgcttcga gatctgcaga ccagacagta ctatgccaat cagaatggct 420
 caaataccaa gggaagtgtt attggttctc taatgagatg aaaagctgga gtgacagtta 480
 tgtgtattgt ttggaaagaa aatctcatct actaatcata catgaccaac ttgaaatggc 540
 ttttatacag aaaaacctaa gacaattaaa ctacgtatgg attgggctta actttacctc 600
 cttgaaaatg acatggactt ggggtggatgg ttctccaata gattcaaaga tattcttcat 660
 aaagggacca gctaaagaaa acagctgtgc tgccattaag gaaagcaaaa ttttctctga 720
 aacctgcagc agtggttttca aatggatttg tcagtattag agtttgacaa aattcacagt 780
 gaaataatca atgatcacta tttttggcct attagtttct aatattaatc tccagggtga 840
 agatttttaa gtgcaattaa atgccaaaat ctcttctccc ttctccctcc atcatcgaca 900
 ctggtctagc ctcagagtaa ccctgttaa caaactaaaa tgtacacttc aaaattttta 960
 cgtgatagta taaaccaatg tgacttcatg tgatcatatc caggattttt attcgctcgt 1020
 tattttatgc caaatgtgat caaattatgc ctgttttct gtatcttgcg ttttaaattc 1080
 ttaataaggt cctaaacaaa atttcttata tttctaattg ttgaattata atgtgggttt 1140
 atacattttt tacccttttg tcaaagagaa ttaactttgt ttccaggctt ttgctactct 1200
 tcactcagct acaataaaca tcctgaatgt tttcttaaaa aa 1242

<210> 434
 <211> 2298
 <212> DNA
 <213> Homo sapiens

<400> 434
 tcggccgagc ccagagacag ccagttcctc tcccgcgcgc ccgggcccgc tgccgctcgc 60
 tccccggccg tggcgctctc gggccagacg cgctgcagcc tccagcccgc ggcaagcggg 120
 cggggcgccc gcgccacccc cggccccgcg ccagcagccc ctgcgcgcgc gtccagcgtt 180
 cccggccagc agcctcccca tacgcagtcg tgctggaccg ccccgtcgcg cccccactc 240

tgaactcaag tcaccgtgga gctccgccc cccgaaactt tcacgcgagc gggaaatatg	300
ggatgtataa aatcaaaagg gaaagacagc ttgagtgcag atggagtaga tttgaagact	360
caaccagtac gtaatactga aagaactatt tatgtgagag atccaacgtc caataaacag	420
caaaggccag ttccagaatc tcagctttta cctggacaga ggtttcaaac taaagatcca	480
gaggaacaag gagacattgt ggtagccttg tacccttatg atggcatcca cccggacgac	540
ttgtctttca agaaaggaga gaagatgaaa gtcctggagg agcatggaga atgggtggaaa	600
gcaaagtccc ttttaacaaa aaaagaaggc ttcattccca gcaactatgt ggccaaactc	660
aacaccttag aaacagaaga gtgggttttc aaggatataa ccaggaagga cgcagaaagg	720
cagcttttgg caccaggaaa tagcgtgga gctttcctta ttagagaaag tgaaacatta	780
aaaggaagct tctctctgtc tgtcagagac tttagacctg tgcattggtg tgttattaag	840
cactacaaaa ttagaagtct ggataatggg ggctattaca tctctccacg aatcactttt	900
ccctgtatca gcgacatgat taaacattac caaagcagg cagatggctt gtgcagaaga	960
ttggagaagg cttgtattag tccaagcca cagaagccat gggataaaga tgccctgggag	1020
atcccccggt agtccatcaa gttggtgaaa aggcttggcg ctgggcagtt tggggaagtc	1080
tggatgggtt actataacaa cagtaccaag gtggctgtga aaacctgaa gccaggaaact	1140
atgtctgtgc aagccttcct ggaagaaggc aacctcatga agacctgca gcatgacaag	1200
ctcgtgaggc tctacgtgtg ggtcaccagg gaggagccca ttacatcat caccgagtac	1260
atggccaagg gcagtttgct ggatttcctg aagagcgatg aagggtggcaa agtgctgctt	1320
ccaaagctca ttgacttttc tgctcagatt gcagagggaa tggcatacat cgagcggaag	1380
aactacattc accgggacct gcgagcagct aatgttctgg tctccgagtc actaatgtgc	1440
aaaattgcag attttggcct tgctagagta attgaagata atgagtacac agcaagggaa	1500
ggtgctaagt tccctattaa gtggacggct ccagaagcaa tcaactttgg atgtttcact	1560
attaagtctg atgtgtggtc ctttggaaac ctctatacag aaattgtcac ctatgggaaa	1620
attccctacc caggggagaac taatgccgac gtgatgaccg ccctgtccca gggctacagg	1680
atgccccgtg tggagaactg cccagatgag ctctatgaca ttatgaaaat gtgctggaaa	1740
gaaaaggcag aagagagacc aacgtttgac tacttacaga gcgtcctgga tgatttctac	1800
acagccacgg aagggaata ccagcagcag ccttagagca caggagagacc cgtccatttg	1860
gcaggggttg ctgcctcatt tagagaggaa aagtaaccat cactgggtgc acttatgatt	1920
tcatgtgcgg ggatcatctg ccgtgcctgg atcctgaaat agaggctaaa ttactcagga	1980
agaacaccct ctaaattggga aagtattctg tactcttaga tggattctcc actcagttgc	2040

aacttggact	tgtcctcagc	agctggtaat	cttgctctgc	ttgacaacat	ctgagtgcag	2100
ccgtttgaga	agaaaacatc	tattctctcc	aaaaatgcac	ccaactagct	ctatgtttac	2160
aaatggacat	aggactcaaa	gtttcagaga	ccattgcaat	gaatccccaa	taattgcaga	2220
actaaactca	tttataaagc	taaaataacc	ggatatatac	atagcatgac	atttctttgt	2280
gctttggctt	acttggtt					2298

<210> 435

<211> 2308

<212> DNA

<213> Homo sapiens

<400> 435

gagagactgg	atggaccac	aagggtgaca	gcccaggcgg	accgatcttc	ccatcccaca	60
tcctccggcg	cgatgccaaa	aagaggctga	cggcaactgg	gccttctgca	gagaaagacc	120
tccgcttcac	tgccccggct	ggtcccaagg	gtcaggaaga	tggattcata	cctgctgatg	180
tggggactgc	tcacgttcat	catggtgcct	ggctgccagg	cagagctctg	tgacgatgac	240
ccgccagaga	tcccacacgc	cacattcaaa	gccatggcct	acaaggaagg	aaccatgttg	300
aactgtgaat	gcaagagagg	tttccgcaga	ataaaaagcg	ggtcactcta	tatgctctgt	360
acaggaaaact	ctagccactc	gtcctgggac	aaccaatgtc	aatgcacaag	ctctgccact	420
cggaaacacaa	cgaaacaagt	gacacctcaa	cctgaagaac	agaaagaaag	gaaaaccaca	480
gaaatgcaaa	gtccaatgca	gccagtggac	caagcgagcc	ttccagggtca	ctgcagggaa	540
cctccaccat	gggaaaatga	agccacagag	agaattttatc	atttcgtggg	ggggcagatg	600
gtttattatc	agtgcgtcca	gggatacagg	gctctacaca	gaggtcctgc	tgagagcgtc	660
tgcaaaatga	cccacgggaa	gacaagggtg	accagcccc	agctcatatg	cacaggtgaa	720
atggagacca	gtcagtttcc	aggtgaagag	aagcctcagg	caagccccga	aggccgtcct	780
gagagtgaga	cttcctgcct	cgtcacaaca	acagattttc	aaatacagac	agaaatggct	840
gcaaccatgg	agacgtccat	atttacaaca	gagtaccagg	tagcagtggc	cggctgtgtt	900
ttcctgctga	tcagcgtcct	cctcctgagt	gggctcacct	ggcagcggag	acagaggaag	960
agtagaagaa	caatctagaa	aaccaaaga	acaagaattt	cttggtaaga	agccgggaac	1020
agacaacaga	agtcatgaag	cccaagtga	atcaaagggtg	ctaaatgggc	gcccaggaga	1080
catccgttgt	gcttgccctgc	gttttggaag	ctctgaagtc	acatcacagg	acacggggca	1140
gtggcaacct	tgtctctatg	ccagctcagt	cccatcagag	agcgagcgct	accacttct	1200
aaatagcaat	ttcgccgttg	aagaggaagg	gcaaaaccac	tagaactctc	catcttattt	1260
tcatgtatat	gtgttcatta	aagcatgaat	ggtatggaac	tctctccacc	ctatatgtag	1320

tataaagaaa	agtaggttta	cattcatctc	attccaactt	cccagttcag	gagtcccaag	1380
gaaagcccca	gcactaacgt	aaatacacia	cacacacact	ctaccctata	caactggaca	1440
ttgtctgctg	ggttcccttc	tcagccgctt	ctgactgctg	attctcccgt	tcacgttgcc	1500
taataaacat	ccttcaagaa	ctctgggctg	ctaccagaa	atcattttac	ccttggtca	1560
atcctctaag	ctaaccctt	tctactgagc	cttcagtctt	gaatttctaa	aaaacagagg	1620
ccatggcaga	ataatctttg	ggtaacttca	aaacggggca	gccaaacca	tgaggcaatg	1680
tcaggaacag	aaggatgaat	gaggtcccag	gcagagaatc	atacttagca	aagttttacc	1740
tgtgctgtac	taattggcct	ctttaagagt	tagtttcttt	gggattgcta	tgaatgatac	1800
cctgaatttg	gcctgcacta	atttgatgtt	tacaggtgga	cacacaaggt	gcaaatcaat	1860
gcgtacgttt	cctgagaagt	gtctaaaaac	acaaaaagg	gatccgtaca	ttcaatgttt	1920
atgcaaggaa	ggaaagaaag	aaggaagtga	agaggagaa	gggatggagg	tcacactggg	1980
agaacgtaac	cacggaaaag	agcgcatcag	gcctggcacg	gtggctcagg	cctataaccc	2040
cagctcccta	ggagaccaag	gcgggagcat	ctcttgaggc	caggagtgtg	agaccagcct	2100
gggcagcata	gcaagacaca	tccctacaaa	aaattagaaa	ttggctggat	gtggtggcat	2160
acgcctgtag	tcctagccac	tcaggaggct	gaggcaggag	gattgcttga	gccaggagt	2220
tcgaggctgc	agtcagtcac	gatggcacca	ctgcactcca	gcctgggcaa	cagagcaaga	2280
tcctgtcttt	aaggaaaaaa	agacaagg				2308

<210> 436
 <211> 696
 <212> DNA
 <213> Homo sapiens

<400> 436	
ttcccccccc	60
tgagttctgc	120
gtgactgtcc	180
ccaatgggct	240
cgcaactttg	300
ttccaaacca	360
tacgtgtatg	420
cacctgagcc	480
gcagttcctg	540
gtcatttcca	600

ctgtcactgt ttctctgctg ttgcaaatac atggataaca catttgattc tgtgtgtttt 660
ccataataaa actttaaaat aaaatgcaga cagtta 696

<210> 437
<211> 116
<212> DNA
<213> Homo sapiens

<400> 437
gatcagattt ggggtgggaga aagaagtggg tatcaagggt gatttgaatt ttctgcagca 60
ttaaagtggc gttaataaga taagtaataa taaagaattc taacatccat gtcaaa 116

<210> 438
<211> 3426
<212> DNA
<213> Homo sapiens

<400> 438
gagcaatgat gtagccacct cctaaccttc ccttcttgaa cccccaggtc ccctcttgct 60
gttggctgca catcaggaag gctgtgatgg gaatgaagg gaaaacttgg agatttcact 120
tcagtcattg cttctgcctg caagatcatc ctttaaaagt agagaagctg ctctgtgtgg 180
tggttaactc caagaggcag aactcgttct agaaggaaat ggatgcaagc agctccgggg 240
gccccaaaacg catgcttcct gtgatctagc ccagggaagc ccttccgtgg gggccccggc 300
tttgagggat gccaccggtt ctggacgcat ggctgattct gaatgatgat ggttcgccgg 360
gggctgcttg cgtggatttc ccgggtgggtg gttttgctgg tgctcctctg ctgtgctatc 420
tctgtcctgt acatgttggc ctgcacccca aaagggtgacg aggagcagct ggcactgccc 480
agggccaaca gccccacggg gaaggagggg taccaggccg tccttcagga gtgggaggag 540
cagcaccgca actacgtgag cagcctgaag cggcagatcg cacagctcaa ggaggagctg 600
caggagagga gtgagcagct caggaatggg cagtaccaag ccagcgatgc tgctggcctg 660
ggtctggaca ggagcccccc agagaaaacc caggccgacc tcctggcctt cctgcactcg 720
cagggtggaca aggcagaggt gaatgctggc gtcaagctgg ccacagagta tgcagcagtg 780
cctttcgata gctttactct acagaagggtg taccagctgg agactggcct taccgcccac 840
cccgaggaga agcctgtgag gaaggacaag cgggatgagt tggtggaagc cattgaatca 900
gccttggaga ccctgaacaa tcctgcagag aacagcccca atcaccgtcc ttacacggcc 960
tctgatttca tagaagggat ctaccgaaca gaaagggaca aagggacatt gtatgagctc 1020
accttcaaag gggaccacaa acatgaattc aaacgggtca tcttatttcg accattcggc 1080
cccatcatga aagtgaaaaa tgaaaagctc aacatggcca acacgcttat caatgttatc 1140
gtgcctctag caaaaagggt ggacaagttc cggcagttca tgcagaattt caggagatg 1200

tgcattgagc aggatgggag agtccatctc actggtggtt actttgggaa agaagaaata	1260
aatgaagtca aaggaatact tgaaaacact tccaaagctg ccaacttcag gaactttacc	1320
ttcatccagc tgaatggaga attttctcgg ggaaaggac ttgatgttg agcccgttc	1380
tggaagggaa gcaacgtcct tctcttttct tgtgatgtgg acatctactt cacatctgaa	1440
ttcctcaata cgtgtaggct gaatacacag ccagggaaga aggtatttta tccagttctt	1500
ttcagtcagt acaatcctgg cataatatac ggccaccatg atgcagtccc tcccttgga	1560
cagcagctgg tcataaagaa ggaaactgga ttttgagag actttggatt tgggatgacg	1620
tgtcagtatc ggtcagactt catcaatata ggtgggtttg atctggacat caaaggctgg	1680
ggcggagagg atgtgcacct ttatcgcaag tatctccaca gcaacctcat agtggtagcg	1740
acgcctgtgc gaggactctt ccacctctgg catgagaagc gctgcatgga cgagctgacc	1800
cccagcagt acaagatgtg catgcagtcc aaggccatga acgaggcatc ccacggccag	1860
ctgggcatgc tgggtgttcag gcacgagata gaggctcacc ttcgcaaaca gaaacagaag	1920
acaagtagca aaaaaacatg aactcccaga gaaggattgt gggagacact ttttctttcc	1980
ttttgcaatt actgaaagtg gctgcaacag agaaaagact tccataaagg acgacaaaag	2040
aattggactg atgggtcaga gatgagaaag cctccgattt ctctctgttg ggctttttac	2100
aacagaaatc aaaatctccg ctttgccctgc aaaagtaacc cagttgcacc ctgtgaagtg	2160
tctgacaaag gcagaatgct tgtgagatta taagcctaag ggtgtggagg ttttgatggt	2220
gtttacaata cactgagacc tgttggtttg tgtgctcatt gaaatattca tgatttaaga	2280
gcagttttgt aaaaaattca ttagcatgaa aggcaagcat atttctcctc atatgaatga	2340
gcctatcagc agggctctag tttctaggaa tgctaaaata tcagaaggca ggagaggaga	2400
taggcttatt atgatactag tgagtacatt aagtaaaata aaatggacca gaaaagaaaa	2460
gaaaccataa atatcgtgtc atattttccc caagattaac caaaaataat ctgcttatct	2520
ttttggttgt ccttttaact gtctccgttt ttttctttta tttaaaaatg cacttttttt	2580
cccttgtagg ttatagtctg cttatttaat taccactttg caagccttac aagagagcac	2640
aagttggcct acatttttat attttttaag aagatacttt gagatgcatt atgagaactt	2700
tcagttcaaa gcatcaaatt gatgccatat ccaaggacat gccaaatgct gattctgtca	2760
ggcactgaat gtcaggcatt gagacatagg gaaggaatgg tttgtactaa tacagacgta	2820
cagatacttt ctctgaagag tatttttcgaa gaggagcaac tgaacactgg aggaaaagaa	2880
aatgacactt tctgctttac agaaaaggaa actcattcag actggtgata tcgtgatgta	2940
cctaaaagtc agaaaccaca ttttctcctc agaagtaggg accgctttct tacctgttta	3000

```

aataaaccaa agtataccgt gtgaaccaa caatctcttt tcaaacagg gtgctcctcc 3060
tggcttcttg cttccataag aagaaatgga gaaaaatata tatatatata tatatattgt 3120
gaaagatcaa tccatctgcc agaatctagt gggatggaag tttttgctac atgttatcca 3180
ccccaggcca ggtggaagta actgaattat tttttaaatt aagcagttct actcgatcac 3240
caagatgctt ctgaaaattg cattttatta ccatttcaaa ctatttttta aaaataaata 3300
cagttaacat agagtgggtt cttcattcat gtgaaaatta ttagccagca ccagatgcat 3360
gagctaatta tctctttgag tccttgcttc tgtttgctca cagtaagctc attgtttaaa 3420
agcttc 3426

```

```

<210> 439
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (144)..(145)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (309)..(309)
<223> n is a, c, g, t or u

```

```

<400> 439
tttttttttt tttttttttt tcgaagatca gtactttatt ttctctagct ccagtgtttt 60
gcaactgtag cagcatatca gaaacatccc cacacaaaaa cacacaattc tccccttctt 120
caaagagctg gcaacaattg aganncagaa acaatagtna ctacnggcat ttgagaaatt 180
taagaaataa cacttgctca cccttgaaac atacattgtg cgncttgag gtcggaagca 240
gcagtacatt tgtcattcaa agacacaatc atccttaa ataaagttaaat aaaaccttat 300
tggcataana accgcgttgg agatgcagct ttatcgggga ctttgggagg aaggtgcttg 360

```

gaataagaca tgagcatttt aaaa

384

<210> 440

<211> 2545

<212> DNA

<213> Homo sapiens

<400> 440

atccaataca ggagtgactt ggaactccat tctatcacta tgaagaaaag tgggtgttctt	60
ttcctcttgg gcatcatctt gctggttctg attggagtgc aaggaacccc agtagtgaga	120
aagggtcgct gttcctgcat cagcaccaac caagggacta tccacctaca atccttgaaa	180
gaccttaaac aatttgcccc aagcccttcc tgcgagaaaa ttgaaatcat tgctacactg	240
aagaatggag ttcaaactg tctaaacca gattcagcag atgtgaagga actgattaaa	300
aagtgggaga aacaggtcag ccaaaagaaa aagcaaaaga atgggaaaaa acatcaaaaa	360
aagaaagttc tgaaagttcg aaaatctcaa cgttctcgtc aaaagaagac tacataagag	420
accacttcac caataagtat tctgtgttaa aaatgttcta ttttaattat accgctatca	480
ttccaaagga ggatggcata taatacaaag gcttattaat ttgactagaa aattttaaac	540
attactctga aattgtaact aaagttagaa agttgatttt aagaatccaa acgttaagaa	600
ttgttaaagg ctatgattgt ctttgttctt ctaccacca ccagttgaat ttcacatgc	660
ttaaggccat gatttttagca ataccatgt ctacacagat gttcacccaa ccacatccca	720
ctcacaacag ctgcctggaa gagcagccct aggccttcac gtactgcagc ctccagagag	780
tatctgaggc acatgtcagc aagtcctaag cctgttagca tgctggtgag ccaagcagtt	840
tgaaattgag ctggacctca ccaagctgct gtggccatca acctctgtat ttgaatcagc	900
ctacaggcct cacacacaat gtgtctgaga gattcatgct gattgttatt gggatcacc	960
actggagatc accagtgtgt ggctttcaga gcctccttct tggcttttga agccatgtga	1020
ttccatcttg cccgctcagg ctgaccactt tatttctttt tgttcccctt tgcttcattc	1080
aagtcagctc ttctccatcc taccacaatg cagtgccttt cttctctcca gtgcacctgt	1140
catatgctct gatttatctg agtcaactcc tttctcatct tgtccccaac accccacaga	1200
agtgccttct tctcccaatt catcctcact cagtccagct tagttcaagt cctgcctctt	1260
aaataaacct ttttggacac acaaattatc ttaaaactcc tgtttcactt ggttcagtac	1320
cacatgggtg aacactcaat ggtaactaa ttcttgggtg tttatcctat ctctccaacc	1380
agattgtcag ctcttgagg gcaagagcca cagtatattt ccctgtttct tccacagtgc	1440
ctaataatac tgtggaacta ggttttaata atttttaat tgatgttggt atgggcagga	1500
tggcaaccag accattgtct cagagcaggt gctggctctt tctggctac tccatgttgg	1560

```

ctagcctctg gtaacctctt acttattatc ttcaggacac tcactacagg gaccagggat 1620
gatgcaacat ccttgtcttt ttatgacagg atgtttgctc agcttctcca acaataagaa 1680
gcacgtggta aaacacttgc ggatattctg gactgttttt aaaaaatata cagtttaccg 1740
aaaatcatat aatcttaca tgaaaaggac tttatagatc agccagtgc caaccttttc 1800
ccaaccatac aaaaattcct tttcccgaag gaaaagggtt ttctcaataa gcctcagctt 1860
tctaagatct aacaagatag ccaccgagat ccttatcgaa actcatttta ggcaaatatg 1920
agttttattg tccgtttact tgtttcagag tttgtattgt gattatcaat taccacacca 1980
tctcccatga agaaagggaa cggtgaagta ctaagcgcta gaggaagcag ccaagtcggt 2040
tagtggaagc atgattggtg ccaggttagc ctctgcagga tgtggaaacc tccttccagg 2100
ggagggttcag tgaattgtgt aggagagggt gtctgtggcc agaatttaaa cctatactca 2160
ctttcccaaa ttgaatcact gctcacactg ctgatgattt agagtgtctg ccggtggaga 2220
tcccaccga acgtcttctc taatcatgaa actccctagt tccttcatgt aacttccctg 2280
aaaaatctaa gtgtttcata aatttgagag tctgtgaccc acttaccttg catctcacag 2340
gtagacagta tataactaac aaccaaagac tacatattgt cactgacaca cacgttataa 2400
tcatttatca tatatataca tacatgcata cactctcaaa gcaaataatt tttcacttca 2460
aaacagtatt gacttgata ccttgtaatt tgaaatattt tctttgttaa aatagaatgg 2520
tatcaataaa tagaccatta atcag 2545

```

```

<210> 441
<211> 1172
<212> DNA
<213> Homo sapiens

```

```

<400> 441
gagacattcc tcaattgctt agacatatcc tgagcctaca gcagaggaac ctccagtctc 60
agcaccatga atcaaactgc gattctgatt tgctgcctta tctttctgac tctaagtggc 120
attcaaggag tacctctctc tagaacgta cgctgtacct gcacagcat tagtaatcaa 180
cctgttaatc caaggctctt agaaaaactt gaaattatcc ctgcaagcca attttgtcca 240
cgtgttgaga tcattgctac aatgaaaaag aagggtgaga agagatgtct gaatccagaa 300
tcgaaggcca tcaagaattt actgaaagca gtttagcaagg aaatgtctaa aagatctcct 360
taaaaccaga ggggagcaaa atcgatgcag tgcttccaag gatggaccac acagaggctg 420
cctctcccat cacttcccta catggagtat atgtcaagcc ataattgttc ttagtttgca 480
gttacactaa aagggtgacca atgatggtca ccaaatcagc tgctactact cctgtaggaa 540
ggttaatggt catcatccta agctattcag taataactct accctggcac tataatgtaa 600

```

gctctactga ggtgctatgt tcttagtgga tgttctgacc ctgcttcaaa tatttccctc 660
 acctttccca tcttccaagg gtactaagga atctttctgc tttgggggttt atcagaattc 720
 tcagaatctc aaataactaa aaggatgca atcaaactcg ctttttaaag aatgctcttt 780
 acttcatgga cttccactgc catcctccca aggggcccaa attctttcag tggctaccta 840
 catacaattc caaacacata caggaaggta gaaatatctg aaaatgtatg tgtaagtatt 900
 cttattttaat gaaagactgt acaaagtata agtcttagat gtatatattt cctatatattg 960
 tttcagtgtg catggaataa catgtaatta agtactatgt atcaatgagt aacaggaaaa 1020
 ttttaaaaaat acagatagat atatgctctg catgttacat aagataaatg tgctgaatgg 1080
 ttttcaaata aaaatgaggt actctcctgg aaatattaag aaagactatc taaatgttga 1140
 aagatcaaaa ggttaataaa gtaattataa ct 1172

<210> 442
 <211> 1859
 <212> DNA
 <213> Homo sapiens

<400> 442
 gcaggcacaa actcatccat cccagttga ttggaagaaa caacgatgac tcctgggaag 60
 acctcattgg tgtcactgct actgctgctg agcctggagg ccatagtga ggcaggaaac 120
 acaatcccac gaaatccagg atgccc aaat tctgaggaca agaacttccc cgggactgtg 180
 atgggtcaacc tgaacatcca taaccggaat accaatacca atccccaaaag gtcctcagat 240
 tactacaacc gatccacctc accttggaat ctccaccgca atgaggaccc tgagagatat 300
 ccctctgtga tctggggaggc aaagtgccgc cacttgggct gcatcaacgc tgatgggaac 360
 gtggactacc acatgaactc tgtccccatc cagcaagaga tcctggtcct gcgcaggagg 420
 cctccacact gccc aaactc cttccggctg gagaagatac tgggtgtccgt gggctgcacc 480
 tgtgtcacc cgaattgtcca ccatgtggcc taagagctct ggggagccca cactcccaa 540
 agcagttaga ctatggagag ccgacc cagc ccctcaggaa ccctcatcct tcaaagacag 600
 cctcattttcg gactaaactc attagagttc ttaaggcagt ttgtccaatt aaagcttcag 660
 aggtaacact tggccaagat atgagatctg aattaccttt ccctctttcc aagaaggaag 720
 gtttgactga gtaccaattt gcttcttgtt tactttttta agggctttta gttatttatg 780
 tatttaatat gccctgagat aactttgggg tataagattc cattttaatg aattacctac 840
 tttattttgt ttgtcttttt aaagaagata agattctggg cttgggaatt ttattattta 900
 aaaggtaaaa cctgtattta tttgagctat ttaaggatct atttatgttt aagtatttag 960
 aaaaagggtga aaaagcacta ttatcagttc tgcctaggta aatgtaagat agaattaaat 1020

ggcagtgcaa aatttctgag tctttacaac atacggatat agtatttcct cctctttgtt 1080
 tttaaaagtt ataacatggc tgaaaagaaa gattaaacct actttcatat gtattaattt 1140
 aaattttgca atttgttgag gttttacaag agatacagca agtctaactc tctgttccat 1200
 taaaccctta taataaaatc cttctgtaat aataaagttt caaaagaaaa tgtttatttg 1260
 ttctcattaa atgtatttta gcaaactcag ctcttccta ttgggaagag ttatgcaaat 1320
 tctctataa gcaaaacaaa gcatgtctt gagtaacaat gacctggaaa taccacaaat 1380
 tccaagttct cgatttcaca tgccttcaag actgaacacc gactaagggt ttcatactat 1440
 tagccaatgc tgtagacaga agcattttga taggaataga gcaaataaga taatggccct 1500
 gaggaatggc atgtcattat taaagatcat atggggaaaa tgaaaccctc cccaaaatac 1560
 aagaagttct gggaggagac attgtcttca gactacaatg tccagtttct cccctagact 1620
 caggcttctt ttggagatta aggccctca gagatcaaca gaccaacatt tttctcttcc 1680
 tcaagcaaca ctcttagggc ctggcttctg tctgatcaag gcaccacaca acccagaaag 1740
 gagctgatgg ggcagaacga actttaagta tgagaaaagt tcagcccaag taaaataaaa 1800
 actcaatcac attcaattcc agagtagttt caagtttcac atcgtaacca ttttcgccc 1859

<210> 443
 <211> 1496
 <212> DNA
 <213> Homo sapiens

<400> 443
 gactccgggt ggcaggcgcc cgggggaatc ccagctgact cgctcactgc cttcgaagtc 60
 cggcgccccc cgggagggaa ctgggtggcc gcaccctccc ggctgcggtg gctgtcgccc 120
 cccaccctgc agccaggact cgatggagaa tccattccaa tatatggcca tgtggctctt 180
 tggagcaatg ttccatcatg ttccatgctg ctgctgacgt cacatggagc acagaaatca 240
 atgttagcag atagccagcc catacaagat cgtattgtat tgtaggaggc atcgtggatg 300
 gatggctgct ggaaaccctt tgccatagcc agctcttctt caatacttaa ggatttaccg 360
 tggctttgag taatgagaat ttcgaaacca catttgagaa gtatttccat ccagtgtctac 420
 ttgtgtttac ttctaaacag tcatttttcta actgaagctg gcattcatgt cttcattttg 480
 ggctgtttca gtgcagggtt tcctaaaaca gaagccaact gggatgaatgt aataagtgat 540
 ttgaaaaaaa ttgaagatct tattcaatct atgcatattg atgctacttt atatacggaa 600
 agtgatgttc accccagttg caaagtaaca gcaatgaagt gctttctctt ggagttacaa 660
 gttatttcac ttgagtccgg agatgcaagt attcatgata cagtagaaaa tctgatcatc 720
 ctagcaaca acagtttgtc ttctaattggg aatgtaacag aatctggatg caaagaatgt 780

gaggaactgg aggaaaaaaa tattaaagaa tttttgcaga gttttgtaca tattgtccaa 840
 atgttcatca acacttcttg attgcaattg attcttttta aagtgtttct gttattaaca 900
 aacatcactc tgctgcttag acataacaaa acactcggca tttcaaagt gctgtcaaaa 960
 caagtttttc tgtcaagaag atgatcagac cttggatcag atgaactctt agaaatgaag 1020
 gcagaaaaat gtcattgagt aatatagtga ctatgaactt ctctcagact tactttactc 1080
 atttttttaa tttattattg aaattgtaca tttttgtgga ataatgtaaa atgttgaata 1140
 aaaatatgta caagtgttg tttttaagtt gcactgatat tttacctctt attgcaaaat 1200
 agcatttggt taagggtgat agtcaaatta tgtattggtg gggctgggta ccaatgctgc 1260
 aggtcaacag ctatgctggt aggctcctgc cagtgtggaa ccactgacta ctggctctca 1320
 ttgacttcct tactaagcat agcaaacaga ggaagaattt gttatcagta agaaaaagaa 1380
 gaactatatg tgaatcctct tctttatact gtaatttagt tattgatgta taaagcaact 1440
 gttatgaaat aaagaaattg caataactgg caaaaaaaaa aaaaaaaaaa aaaaaa 1496

<210> 444

<211> 1629

<212> DNA

<213> Homo sapiens

<400> 444

acacatcagg ggcttgctct tgcaaaacca aaccacaaga cagacttgca aaagaaggca 60
 tgcacagctc agcactgctc tgttgcctgg tcctcctgac tggggtgagg gccagcccag 120
 gccagggcac ccagtctgag aacagctgca cccacttccc aggcaacctg cctaacatgc 180
 ttcgagatct ccgagatgcc ttcagcagag tgaagacttt ctttcaaagt aaggatcagc 240
 tggacaactt gttgttaaag gagtccttgc tggaggactt taagggttac ctgggttgcc 300
 aagccttgctc tgagatgac cagttttacc tggaggaggat gatgccccaa gctgagaacc 360
 aagaccaga catcaaggcg catgtgaact ccctggggga gaacctgaag accctcaggc 420
 tgaggctacg gcgctgtcat cgatttcttc cctgtgaaaa caagagcaag gccgtggagc 480
 aggtgaagaa tgcctttaat aagctccaag agaaaggcat ctacaaagcc atgagtgagt 540
 ttgacatctt catcaactac atagaagcct acatgacaat gaagatacga aactgagaca 600
 tcagggtggc gactctatag actctaggac ataaattaga ggtctccaaa atcggatctg 660
 gggctctggg atagctgacc cagccccttg agaaacctta ttgtacctct cttatagaat 720
 atttattacc tctgatacct caacccccat ttctatttat ttactgagct tctctgtgaa 780
 cgatttagaa agaagcccaa tattataatt tttttcaata tttattattt tcacctgttt 840
 ttaagctggt tccatagggt gacacactat ggtatttgag tgttttaaga taaattataa 900

gttacataag ggaggaaaaa aaatgttctt tggggagcca acagaagctt ccattccaag 960
 cctgaccacg ctttctagct gttgagctgt tttccctgac ctccctctaa tttatcttgt 1020
 ctctgggctt ggggcttcc t aactgctaca aatactctta ggaagagaaa ccaggagacc 1080
 cctttgatga ttaattcacc ttccagtgtc tcggagggat tcccctaacc tcattcccca 1140
 accacttcat tcttgaaagc tgtggccagc ttgttattta taacaaccta aatttggttc 1200
 taggccgggc gcggtggctc acgcctgtaa tcccagcact ttgggaggct gaggcgggtg 1260
 gatcacttga ggtcaggagt tcccaaccag cctggtcaac atggtgaaac cccgtctcta 1320
 ctaaaaatac aaaaattagc cgggcatggg ggcgcgacc tgtaatcca gctacttggg 1380
 aggctgaggc aagagaattg cttgaaccca ggagatggaa gttgcagtga gctgatatca 1440
 tgcccctgta ctccagcctg ggtgacagag caagactctg tctcaaaaaa taaaaataaa 1500
 aataaatttg gttctaatag aactcagttt taactagaat ttattcaatt cctctgggaa 1560
 tgttacattg tttgtctgtc ttcatagcag attttaattt tgaataaata aatgtatctt 1620
 attcacatc 1629

<210> 445
 <211> 1193
 <212> DNA
 <213> Homo sapiens

<400> 445
 tgaagatcag ctattagaag agaaagatca gttaagtcct ttggacctga tcagcttgat 60
 acaagaacta ctgatttcaa cttctttggc ttaattctct cggaacgat gaaatataca 120
 agttatatct tggcttttca gctctgcac gttttgggtt ctcttggttg ttactgccag 180
 gaccatattg taaaagaagc agaaaacctt aagaaatatt ttaatgcagg tcattcagat 240
 gtagcggata atggaactct tttcttaggc attttgaaga attggaaaga ggagagtgc 300
 agaaaaataa tgcagagcca aattgtctcc ttttacttca aactttttaa aaactttaaa 360
 gatgaccaga gcatccaaaa gagtgtggag accatcaagg aagacatgaa tgtcaagttt 420
 ttcaatagca acaaaaagaa acgagatgac ttcgaaaagc tgactaatta ttcggtaact 480
 gacttgaatg tccaacgcaa agcaatacat gaactcatcc aagtgatggc tgaactgtcg 540
 ccagcagcta aaacagggaa gcgaaaaagg agtcagatgc tgtttcaagg tcgaagagca 600
 tcccagtaat ggttgtcctg cctgcaatat ttgaatttta aatctaaatc tatttattaa 660
 tatttaacat tatttatatg gggaatatat ttttagactc atcaatcaaa taagtattta 720
 taatagcaac ttttgtgtaa tgaaaatgaa tatctattaa tatatgtatt atttataatt 780
 cctatatect gtgactgtct cacttaatcc tttgttttct gactaattag gcaaggctat 840

gtgattacaa ggcttttatct cagggggccaa ctaggcagcc aacctaagca agatcccatg 900
 ggttggtgtgt ttatttcact tgatgataca atgaacactt ataagtgaag tgatactatc 960
 cagttactgc cggtttgaaa atatgcctgc aatctgagcc agtgctttaa tggcatgtca 1020
 gacagaactt gaatgtgtca ggtgaccctg atgaaaacat agcatctcag gagatttcat 1080
 gcctggtgct tccaaatatt gttgacaact gtgactgtac ccaaattggaa agtaactcat 1140
 ttgttaaaat tatcaatatc taatatatat gaataaagtg taagttcaca act 1193

<210> 446
 <211> 1182
 <212> DNA
 <213> Homo sapiens

<400> 446
 tagttctccc tgagtgaagc ttgcctgctt ctctggcccc tggctctgtc ctgttctcca 60
 gcatggtgtg tctgaagctc cctggaggct cctgcatgac agcgtgaca gtgacactga 120
 tgggtgctgag ctccccactg gctttggctg gggacacccg accacgtttc ttgtggcagc 180
 ttaagtttga atgtcatttc ttcaatggga cggagcgggt gcggttgctg gaaagatgca 240
 tctataacca agaggagtcc gtgcgcttcg acagcgacgt gggggagtac cgggcggtga 300
 cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacctc ctggagcaga 360
 ggcggggccgc ggtggacacc tactgcagac acaactacgg gggtgggtgag agcttcacag 420
 tgcagcggcg agttgagcct aaggtgactg tgtatccttc aaagaccag cccctgcagc 480
 accacaacct cctggtctgc tctgtgagtg gtttctatcc aggcagcatt gaagtcaggt 540
 gggtccggaa cggccaggaa gagaaggctg ggggtggtgtc cacaggcctg atccagaatg 600
 gagattggac cttccagacc ctgggtgatgc tggaaacagt tcctcggagt ggagaggttt 660
 acacctgcca agtggagcac ccaagtgtga cgagccctct cacagtggaa tggagagcac 720
 ggtctgaatc tgcacagagc aagatgctga gtggagtcgg gggcttcgtg ctgggcctgc 780
 tcttccttgg ggccgggctg ttcattctact tcaggaatca gaaaggacac tctggacttc 840
 agccaacagg attcctgagc tgaaatgcag atgaccacat tcaaggaaga accttctgtc 900
 ccagctttgc agaattgaaa gctttcctgc ttggcagtta ttcttccaca agagagggct 960
 ttctcaggac ctggttgcta ctggttcggc aactgcagaa aatgtcctcc cttgtggctt 1020
 cctcagctcc tgcccttggc ctgaagtccc agcattgatg acagcgctc atcttcaact 1080
 tttgtgctcc cctttgcta aaccgtatgg cctcccgctg atctgtactc accctgtacg 1140
 acaaacacat tacattatta aatgtttctc aaagatggag tt 1182

<210> 447

<211> 1410
 <212> DNA
 <213> Homo sapiens

<400> 447
 gcgactgtct ccgccgagcc cccggggcca ggtgtcccgg gcgcgccacg atgcggccgc 60
 ggctgtggct cctcctggcc gcgcagctga cagttctcca tggcaactca gtcctccagc 120
 agaccctgc atacataaag gtgcaaacca acaagatggt gatgctgtcc tgcgaggcta 180
 aaatctccct cagtaacatg cgcactact ggctgagaca gcgccaggca ccgagcagtg 240
 acagtcacca cgagttcctg gccctctggg attccgcaaa agggactatc cacggtgaag 300
 aggtggaaca ggagaagata gctgtgtttc gggatgcaag ccggttcatt ctcaatctca 360
 caagcgtgaa gccggaagac agtggcatct acttctgcat gatcgtcggg agccccgagc 420
 tgaccttcgg gaagggaact cagctgagtg tggttgattt ccttcccacc actgcccagc 480
 ccaccaagaa gtccaccctc aagaagagag tgtgccggtt acccaggcca gagaccaga 540
 agggcccact ttgtagcccc atcaccttg gcctgctggt ggctggcgtc ctggttctgc 600
 tggtttccct gggagtggcc atccacctgt gctgccggcg gaggagagcc cggcttcgtt 660
 tcatgaaaca attttacaaa tgagcagaga atacggtttt ggtgtcctgc taaaaaaga 720
 catcggtcag taacgagcac gatgtggaaa aatgagagaa gggacacatt caaccctgga 780
 gagttcaatg gctgctgaag ctgcctgctt ttactgctg caaggccttt ctgtgtgtga 840
 tgtgcatggg agcaacttgt tcgtgggtca tcgggaatac tagggagaag gtttcattgc 900
 cccaggggca cttcacagag tgtgctggag gactgagtaa gaaatgctgc ccatgccacc 960
 gcttccggct cctgtgcttt ccctgaactg ggacctttag tggtagccat ttagccacca 1020
 tctttgcagg ttgctttgcc ctggtagggc agtaacattg ggtcctgggt ctttcatggg 1080
 gtgatgctgg gctggctccc tcttggctct cccaggctgg ggctgacctt cctcgagag 1140
 aggccaggtg caggttggga atgaggcttg ctgagagggg ctgtccagtt ccagaaggc 1200
 atatcagtct ctgagggtct cctttggggc cgggaacttg cgggtttgag gataggagtt 1260
 cacttcatct tctcagctcc catttctact ctttaagttt tcagctccca tttctactct 1320
 cccatggctt aatgcttctt tcattttctg tttgttttat acaaatgtct tagttgtaca 1380
 aataaagtcc cagggttaaag ataaaaaaaa 1410

<210> 448
 <211> 3084
 <212> DNA
 <213> Homo sapiens

<400> 448
 ctgggctcct ggttgcagag ctccaagtcc tcacacagat acgctgttt gagaagcagc 60

gggcaagaaa gacgcaagcc cagaggccct gccatttctg tgggctcagg tccctactgg	120
ctcaggcccc tgccctccctc ggcaaggcca caatgaaccg gggagtcctt tttaggcact	180
tgcttctgggt gctgcaactg gcgctcctcc cagcagccac tcagggaag aaagtgggtgc	240
tgggcaaaaa aggggataca gtggaactga cctgtacagc ttcccagaag aagagcatac	300
aattccactg gaaaaactcc aaccagataa agattctggg aaatcagggc tccttcttaa	360
ctaaaggctc atccaagctg aatgatcgcg ctgactcaag aagaagcctt tgggaccaag	420
gaaactttcc cctgatcatc aagaatctta agatagaaga ctcagatact tacatctgtg	480
aagtggagga ccagaaggag gaggtgcaat tgctagtgtt cggattgact gccaaactctg	540
acaccacct gcttcagggg cagagcctga ccctgacctt ggagagcccc cctggtagta	600
gccctcagt gcaatgtagg agtccaagg gtaaaaacat acaggggggg aagaccctct	660
ccgtgtctca gctggagctc caggatagtg gcacctggac atgcactgtc ttgcagaacc	720
agaagaaggt ggagttcaaa atagacatcg tgggtgctagc tttccagaag gcctccagca	780
tagtctataa gaaagagggg gaacaggtgg agttctcctt cccactcgcc tttacagttg	840
aaaagctgac gggcagtggc gagctgtgggt ggcaggcgga gagggcttcc tcctccaagt	900
cttggatcac ctttgacctg aagaacaagg aagtgtctgt aaaacgggtt acccaggacc	960
ctaagctcca gatgggcaag aagctccgc tccacctcac cctgccccag gccttgctc	1020
agtatgctgg ctctggaaac ctcacctgg cccttgaagc gaaaacagga aagttgcatc	1080
aggaagtga cctgggtgggt atgagagcca ctcagctcca gaaaaatttg acctgtgagg	1140
tgtggggacc cacctcccct aagctgatgc tgagcttgaa actggagaa aaggaggcaa	1200
aggtctcgaa gcgggagaag gcggtgtggg tgctgaacct tgaggcgggg atgtggcagt	1260
gtctgctgag tgactcggga caggctctgc tggaatcaa catcaagggt ctgcccacat	1320
ggccaccccc ggtgcagcca atggccctga ttgtgctggg gggcgctcgcc ggcctcctgc	1380
ttttcattgg gctaggcatc ttcttctgtg tcagggtgccg gcaccgaagg cgccaagcag	1440
agcggatgtc tcagatcaag agactcctca gtgagaagaa gacctgccag tgccctcacc	1500
ggtttcagaa gacatgtagc cccatttgag gcacgaggcc aggagatcc cacttgacgc	1560
ctccccaggt gtctgccccg cgtttcctgc ctgaggacca gatgaatgta gcagatccca	1620
ggcctctggc ctctgttcg cctcctctac aatttgccat tgtttctcct gggttaggcc	1680
ccggcttcac tggttgagtg ttgctctcta gtttccagag gcttaatcac accgtcctcc	1740
acgccatttc ctttctcttc aagcctagcc cttctctcat tatttctctc tgaccctctc	1800
cccactgctc atttgatcc caggggagtg ttcagggcc gccctggctg gcatggaggg	1860

tgaggctggg	tgtctggaag	catggagcat	gggactgttc	ttttacaaga	caggaccctg	1920
ggaccacaga	gggcaggagc	ttgcacgaaa	tcacacagcc	aagccagtca	aggatggatg	1980
cagatccaga	ggtttctggc	agccagtacc	tcctgccccca	tgctgccccg	ttctcacccct	2040
atgtgggtgg	ggccacagac	tcacatcctg	accttgacaca	aacagcccct	ctggacacag	2100
ccccatgtac	acggcctcaa	gggatgtctc	acatcctctg	tctatttgag	acttagaaaa	2160
atcctacaag	gctggcagtg	acagaactaa	gatgatcatc	tccagtttat	agaccagaac	2220
cagagctcag	agaggctaga	tgattgatta	ccaagtgccg	gactagcaag	tgctggagtc	2280
gggactaacc	caggtccctt	gtcccaagtt	ccactgctgc	ctcttgaatg	cagggacaaa	2340
tgccacacgg	ctctcaccag	tggtagtgg	tggtgtactca	atgtgtactt	ttgggttcac	2400
agaagcacag	cacccatggg	aagggtccat	ctcagagaat	ttacgagcag	ggatgaaggc	2460
ctccctgtct	aaaatccctc	cttcatcccc	cgctgggtggc	agaatctgtt	accagaggac	2520
aaagcctttg	gctcttctaa	tcagagtgca	agctgggagc	acaggcactg	caggagagaa	2580
tgcccagtga	ccagtcactg	accctgtgca	gaacctcctg	gaagcgagct	ttgctgggag	2640
agggggtagc	tagcctgaga	gggaaccctc	caagggacct	caaaggtgat	tgtgccaggc	2700
tctgcgcctg	ccccacaccc	tccttacc	tcctccagac	cattcaggac	acagggaaat	2760
cagggttaca	aatcttcttg	atccacttct	ctcaggatcc	cctctcttcc	tacccttccct	2820
caccacttcc	ctcagtccca	actccttttc	cctatttccct	tctcctcctg	tctttaaagc	2880
ctgcctcttc	caggaagacc	cccctattgc	tgctggggct	ccccatttgc	ttactttgca	2940
tttgtgcca	ctctccaccc	ctgctccct	gagctgaaat	aaaaatacaa	taaacttact	3000
ataaagataa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3060
aaaaaaaaaa	aaaaaaaaaa	aaaa				3084

<210> 449
 <211> 1670
 <212> DNA
 <213> Homo sapiens

<400> 449	
ccaaccacaa	gcaccaaagc agaggggagc gcagcacacc acccagcagc cagagcacca 60
gcccagccat	ggtccttgag gtgagtgacc accaagtgtt aaatgacgcc gaggttgccg 120
ccctcctgga	gaacttcagc tcttccatag actatggaga aaacgagagt gactcgtgct 180
gtacctcccc	gccctgcccc caggacttca gcctgaactt cgaccggggc ttcttgccag 240
ccctctacag	cctcctcttt ctgctggggc tgctgggcaa cggcgcggtg gcagccgtgc 300
tgctgagccg	gcggacagcc ctgagcagca ccgacacctt cctgctccac ctagctgtag 360

```

cagacacgct gctggtgctg acactgccgc tctgggcagt ggacgctgcc gtccagtggg      420
tctttggctc tggcctctgc aaagtggcag gtgccctctt caacatcaac ttctacgcag      480
gagccctcct gctggcctgc atcagctttg accgctacct gaacatagtt catgccaccc      540
agctctaccg cggggggccc ccggcccgcg tgaccctcac ctgcctggct gtctgggggc      600
tctgcctget tttcgccctc ccagacttca tcttctgtc ggcccaccac gacgagcgcc      660
tcaacgccac ccactgccaa tacaacttcc cacagggtggg ccgcacggct ctgcgggtgc      720
tgcagctggt ggctggcttt ctgctgcccc tgetggtcat ggcctactgc tatgcccaca      780
tcctggccgt gctgctggtt tccagggggc agcggcgctt gcgggccatg cggctggtgg      840
tggtggtcgt ggtggccttt gccctctgct ggacccccca tcacctggtg gtgctggtgg      900
acatcctcat ggacctgggc gctttggccc gcaactgtgg ccgagaaagc agggtagacg      960
tgccaagtc ggtcacctca ggctggggt acatgcactg ctgcctcaac ccgctgctct     1020
atgcctttgt aggggtcaag ttccgggagc ggatgtggat gctgctcttg cgcctgggct     1080
gccccaaaca gagagggctc cagaggcagc catcgtcttc ccgccgggat tcatcctggt     1140
ctgagacctc agaggcctcc tactcgggct tgtgaggccg gaatccgggc tcccctttcg     1200
cccacagtct gacttccccg cattccaggc tcctccctcc ctctgccggc tctggctctc     1260
cccaatatcc tcgctcccgg gactcactgg cagccccagc accaccaggt ctcccgggaa     1320
gccaccctcc cagctctgag gactgcacca ttgctgctcc ttagctgcca agcccatcc     1380
tgccgcccga ggtggctgcc tggagcccca ctgcccttct catttgga aa ctaaaacttc     1440
atcttcccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca     1500
cagcccaggc ctccagctca gcagtgactg tggccatggt cccaagacc tctatatattg     1560
ctcttttatt tttatgtcta aaatcctgct taaaactttt caataaaca gatcgtcagg     1620
accaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1670

```

```

<210> 450
<211> 322
<212> DNA
<213> Homo sapiens

```

```

<400> 450
aatataagga cttccattgg tgtgcagggt gattcgtggt gctaaactat gttatgtggg      60
tgtggggggc gagggagggg ttgtgctctg gcagcgggtg cgcctaaat gatctatagg     120
taaactctaa tggttccgc agggggtgca gtgcggagga caagagcttg gggctctctg     180
gctgagtgat ctgggggaca ctcaagcggg ttgtttctgt agaaatggga atcttaaggc     240
ctctctggaa aggggtgtgag ggggtcgagg gggagcgggc gccgggcctt ttgcgcttca     300

```


ttaggtgggt ttgctttgcg ag

322

<210> 451

<211> 568

<212> DNA

<213> Homo sapiens

<400> 451

tttttttttt cagtctattc cccctgtctg gaaggccctt catcctactc tcttggcctc	60
ttctaatttt tttcagtgga gtccaaagta ctcataaaca cattcattaa aaatgtaaga	120
agccaaaggg caaaaaaaaa attttttttta atcagggatg aggagggaag ctaagaattt	180
taaaatagta aatgaaaaat ttagaaatat gtattttgta gaaaatagta gacttagcac	240
taagatgaaa tgttttttgg aaagttttta atttgggagt ttgctgatt ccttcttacc	300
cttcaggaca attcacagat atcaatcctt tctggagtta cccctgactc cctcaacacc	360
ccaaaactct aaatgccacg gtcactctgtt tctatatcaa ccttttaaca tatttatggc	420
caggcgtggg ggctcatgcc tgtaatccta gcactttggg aggccaaggc aggagtcact	480
gcgcctggcc aattttcata tttttagtag agacgggggt ttaccatgtt ggccacgctg	540
gtctcgaact cttgatctca agtgatct	568

<210> 452

<211> 1103

<212> DNA

<213> Homo sapiens

<400> 452

cacagagccc gggccgcagg cacctcctcg ccagctcttc cgctcctctc acagccgcca	60
gacccgcctg ctgagcccca tggccgcgc tgctctctcc gcgcgccccca gcaatccccg	120
gctcctgcga gtggcactgc tgctcctgct cctggtagcc gctggccggc gcgcagcagg	180
agcgtccgtg gccactgaac tgcgctgcc gtgcttgagc accctgcagg gaattcaccc	240
caagaacatc caaagtgtga acgtgaagtc ccccggaacc cactgcgccc aaaccgaagt	300
catagccaca ctcaagaatg ggcggaaagc ttgcctcaat cctgcatccc ccatagttaa	360
gaaaatcatc gaaaagatgc tgaacagtga caaatccaac tgaccagaag ggaggaggaa	420
gctcactggg ggctgttcct gaaggaggcc ctgcccttat aggaacagaa gaggaaagag	480
agacacagct gcagaggcca cctggattgt gcctaattgt tttgagcatc gcttaggaga	540
agtcttctat ttattttatt attcattagt tttgaagatt ctatgttaat attttagggtg	600
taaaataatt aagggtatga ttaactctac ctgcacactg tcctattata ttcattcttt	660
ttgaaatgtc aaccccaagt tagttcaatc tggattcata ttttaattga aggtagaatg	720
ttttcaaag ttctccagtc attatgttaa tatttctgag gagcctgcaa catgccagcc	780

actgtgatag aggctggcgg atccaagcaa atggccaatg agatcattgt gaaggcaggg 840
 gaatgtatgt gcacatctgt tttgtaactg tttagatgaa tgtcagttgt tatttattga 900
 aatgatttca cagtgtgtgg tcaacatttc tcatgttgaa actttaagaa ctaaaatggt 960
 ctaaatatcc cttggacatt ttatgtcttt cttgtaaggc atactgcctt gtttaatggt 1020
 agttttacag tgtttctggc ttagaacaaa ggggcttaat tattgatgtt ttcatagaga 1080
 atataaaaat aaagcactta tag 1103

<210> 453
 <211> 4156
 <212> DNA
 <213> Homo sapiens

<400> 453
 gttattgtga cttgtcgggc cacggccccg gatgttgtgg ctgccgcggg gagatggctg 60
 aggccgaagg ggttcccacg accccaggcc cggcttcggg gtcgactttc aggggccgcc 120
 gagatgtgtc aggctcctgg gagcgggacc agcaggttga ggcggcgagc cgggccctgg 180
 tggaggtgct ggggccttac gagcctctgc tgagtcgggt gcaggcagcc ctggtgtggg 240
 agcggccagc taggagcgct ctgtggtgcc tggggctgaa cgcggtttc tggtagagaga 300
 actggaccct cggaaaccct ccgagtcctg aattcggttg ttcctctagg gctctacttc 360
 tcgcctgccc tgttttcttc gctgcactgg ctcttctctg tacttgcta attttgctc 420
 acctccttcc actocatccc gcctgcaggc ttcggcacc tagttcttcc cagggccgtc 480
 caccocatct ctctgcctta cctgtgcccg caccgccg ccgcacatct ggcgggagct 540
 tctggttaaca tcttgagccg ctcaagagt agcgagggt cctcttttga gcccagacaaa 600
 gctgcgtccc tttaaagcca tcaactcctt tctcttgtct gctcaagtgc aagttctaga 660
 ttgtttccag aggttttagt agtttattgt tggagtagag gcgtgaagtc ttgcaaaggt 720
 tttttgccct gacatctctt cgtcttgtgt ttttacttgc atttggcttg atgatcattg 780
 tgtgtattga tcaatggaag aacaaaatct ggcctgaaat aaaagctggg gctttgtgca 840
 ccctcggttg ctacagctgc ccgagctctg ccaccatgta gctgaagtct gggttagtgg 900
 gaccattttc ataaggaatg ttttgctttt caaaaagcaa aaccaggca agttctgctt 960
 gctgagctgt gggatactga ctttttggc tgtcttgggc cgctacgtcc ctgggcttct 1020
 gctgtcctac ttgatgcttg tcaactgtcat gatgtggccc cttgctgtgt accaccgact 1080
 gtgggatcga gcatatgtgc ggctgaagcc agctctgcag cggctagact tcagtgtccg 1140
 tggctacatg atgtccaagc agagagagag acaattacgc cgcagagctc tccaccagaa 1200
 acgagccatg gacaaccaca gtgacagcga agaggagctt gctgccttct gtctcagct 1260

ggacgattct	actgttgcca	gggaattggc	catcacagac	tctgagcact	cagacgctga	1320
agtctcctgt	acagacaatg	gcacattcaa	tctttcaagg	ggccaaacac	ctctaacgga	1380
aggctctgaa	gacctagatg	gtcacagtga	tccagaggaa	tcctttgcca	gagaccttcc	1440
agacttccct	tccattaata	tggatcctgc	tggcctggat	gatgaggacg	acactagcat	1500
tggcatgccc	agcttgatgt	accgtttctc	gccaggggct	gaggagcccc	aggccccacc	1560
tgccagccgg	gacgaggctg	cgctgccgga	gctcctgctt	ggtgctcttc	ctgtaggata	1620
caacctcacc	agcaaccttg	ccagcctggg	ctcccagggt	atgattcagc	tggccttgct	1680
aggggcctcc	caaccaggcc	cttctggagc	acctgcccag	agagcaacga	gaggcttcct	1740
ccggtccccc	agttcagacc	tggacactga	tgctgagggg	gatgactttg	agcttctgga	1800
ccagtcggag	ctgagtcagc	tggaccctgc	cagttctagg	agccactgag	gcagagactc	1860
cttttgggag	tcactgtggg	ttaggttttt	ttctcccat	cccacttaag	gtgatggggc	1920
aagggaagaa	ctcagctccc	ctcccctgaa	ttatatattgt	atgctgggtg	gcctggctga	1980
tgctcagagg	cctccttaga	gaggacactc	actcccctcc	caccagctgg	atgccatttt	2040
ctgagctcag	tcactgaagt	gagagtgtgc	tcccccaagg	gaggcttctc	tccatcagga	2100
tggctactttg	ggggaacaaa	atagtcaggg	atattgggtc	ccctttgagg	aggtgctgct	2160
gtttgctttt	aggtatgagt	gctcaggggc	cctcactgaa	agagcccatg	cctgccttcc	2220
tcctttcatc	gcctctctag	agccccaaa	gtcaggcagc	agctggagta	gttacattgt	2280
catcatcttt	ttttttgaga	cagtttcgct	ctgttgccca	ggctggagtg	cagtgggtgtg	2340
atcttggttt	tctgcaacgt	ctgccttcca	ggttgaagag	gttctcctgc	ctcagcctcc	2400
ttagtagtg	gattacaggt	gcccgtact	atgccgggt	aatttttctt	ttggtatttt	2460
tagtagaaat	ggggtttcac	catgttgcc	aggctgggtc	caaactcctg	acctcaagt	2520
agctgactgc	cttgccctcc	cagagtgtg	ggattagtcg	tcattctttg	ttaaaccagg	2580
atgtgatttt	tttcttttct	tttcttttct	tttctttttt	ttttttttga	gacagagtct	2640
ctctctgttg	cccaggctgg	agtgcagtgg	cacaatctcg	gtcactgca	gcctccgcct	2700
gccgggtcaa	gcgattctcc	tacctcagcc	tcctcagtag	ctgagattac	aggcatgcac	2760
caccatgccc	ggctaatttt	tttgtgtttt	tagtagagat	ggggtttcac	cgtgctggcc	2820
aggctgggtc	agaactcctg	actgcaaatg	atcagcccgc	ctcagccacc	caaagtgttg	2880
ggattacagg	tgtgagccac	tgtgcccagc	gtgatttttt	tttttttttt	taaagcaaac	2940
ttgtcctttg	gttttgagaa	acaggcctgc	tcctctcat	ctagccacc	atctcttggg	3000
gcctgaaccc	cagtgggtcca	aagtattgct	tgtgaaattt	aaaaaatgtg	aatatgatgt	3060

ggggatgggc ctcttctaca ttaccttggc ccagggggat cagctggctg ggaggattag 3120
 tgagcacctc tgtattttga ggtctgagtc ttctggagct gtgtagttaa tcttcggttt 3180
 ctgataaccc ctgggtccat ctggccatca gcctcagcag tgagcaaagc aataccatac 3240
 tcatttctat gttcctgttc cttcctctgc tcttcctttg gagaagcaat aattcatggg 3300
 ggatgataca gtagcacttt acaaatggct ccatgtcatt catcccaggg gccataatct 3360
 cttgcaccac ctattcttac ttctgttca gtccttttac agcttttatt ttcaactgct 3420
 tcccaacttg gtggggcctc ctttaaggat gagccaatag taagaatgtg gctgtaatca 3480
 gcagagaccc ctctgagggg tatctgttct gcagccccta gtgaaatcat gtgatgtgag 3540
 acagaaacct aaacatggta cttgattcta aacctgtgcc agtctatagc ctctgcctcc 3600
 ccaagcagag ctcaagccaa acgcttctgt cctctttcct tctgcattaa ccctttgctg 3660
 atcctcaggg gccactcccc caacacccct gtacttgggt gagggatgtt ggacagagcc 3720
 tgttttcatg tactgcaggt gggggtgtgc tgacatgttt gctcttggtt gatggagaag 3780
 gtacagaggc caggagtgta aaatggttga cagaagaggg aagagttagg tgtctcatag 3840
 tcactcatag tggggtggtc aggggtaatg gcactctccc actttaggct tctcaaacag 3900
 acttttgaca cctctcaagt tcagagctct gatgtggaaa gacaggaggt gtggggaagg 3960
 agggggatth cgtgtgtttg catgagtgtg cgcttcaggc cttgggagtt ggcaagaggg 4020
 agggaaggaa ggagagcaaa atcttcggaa ggtgtttctt gtacctgagg gatcctgccc 4080
 tgaatctcca tagtctccac tgtgaactga ggaggggagg ggtgtgctgg ggaataaatc 4140
 ttgtatgaga acaatc 4156

<210> 454
 <211> 2075
 <212> DNA
 <213> Homo sapiens

<400> 454
 gccataaagg ccgccgcgcg cccacgcgcc tcgcttgctg cgcgctgccg gcgctccttc 60
 ctctcggct cgcgtctcac tcagtgtacc ttctagtccc gccatggccg ctctcacccg 120
 ggacccccag ttccagaagc tgcagcaatg gtaccgcgag caccgctccg agctgaacct 180
 gcgccgcctc ttgatgcca acaaggaccg cttcaaccac ttcagcttga ccctcaacac 240
 caaccatggg catatcctgg tggattactc caagaacctg gtgacggagg acgtgatgcg 300
 gatgctggtg gacttggcca agtccagggg cgtggaggcc gcccgggagc ggatgttcaa 360
 tgggtgagaag atcaactaca ccgagggctg agccgtgctg cacgtggctc tgcggaaccg 420
 gtcaaacaca cccatcctgg tagacggcaa ggatgtgatg ccagaggtca acaaggttct 480

ggacaagatg aagtctttct gccagcgtgt ccggagcggg gactggaagg ggtacacagg 540
 caagaccatc acggacgtca tcaacattgg cattggcggc tccgacctgg gacccctcat 600
 ggtgactgaa gcccttaagc catactcttc aggaggtccc cgcgtctggt atgtctccaa 660
 cattgatgga actcacattg ccaaaacctt ggcccagctg aaccccgagt cctccctggt 720
 catcattgcc tccaagacct ttactacca ggagaccatc acgaatgcag agacggcgaa 780
 ggagtgggtt ctccaggcgg ccaaggatcc ttctgcagtg gcgaagcact ttgttgccct 840
 gtctactaac acaaccaaag tgaaggagtt tggaattgac cctcaaaaca tggtcgagtt 900
 ctgggattgg gtgggaggac gctactcgct gtggtcggcc atcggactct ccattgccct 960
 gcacgtgggt ttgacaact tcgagcagct gctctcgggg gctcactgga tggaccagca 1020
 cttccgcacg acgcccctgg agaagaacgc ccccgctctg ctggccctgc tgggtatctg 1080
 gtacatcaac tgctttgggt gtgagacaca cgccatgctg ccctatgacc agtacctgca 1140
 ccgctttgct gcgtacttcc agcagggcga catggagtcc aatgggaaat acatcaccaa 1200
 atctggaacc cgtgtggacc accagacagg ccccatgtg tggggggagc cagggaccaa 1260
 tggccagcat gctttttacc agctcatcca ccaaggcacc aagatgatac cctgtgactt 1320
 cctcatcccg gtccagacct agcaccctat acggaagggt ctgcatcaca agatcctcct 1380
 ggccaacttc ttggcccaga cagaggccct gatgagggga aaatcgacgg aggaggcccg 1440
 aaaggagctc caggctgcgg gcaagagtcc agaggacctt gagaggctgc tgccacataa 1500
 ggtctttgaa ggaaatcgcc caaccaactc tattgtgttc accaagctca caccattcat 1560
 gcttgagacc ttggtcgcca tgtatgagca caagatcttc gttcagggca tcatctggga 1620
 catcaacagc ttgaccagt ggggagtgga gctgggaaag cagctggcta agaaaataga 1680
 gcctgagctt gatggcagt ctcaagtgac ctctcacgac gcttctacca atgggctcat 1740
 caacttcac aagcagcagc gcgaggccag agtccaataa actcgtgctc atctgcagcc 1800
 tcctctgtga ctccccttct tcttctcgtc cctcctcccc ggagccggca ctgcatgttc 1860
 ctggacacca cccagagcac cctctggttg tgggcttgga ccacgagccc ttagcagggga 1920
 aggctggctc cccccagcct aacccccagc ccctccatgt ctatgctccc tctgtgttag 1980
 aattggctga agtggtttttg tgcagctgac ttttctgacc catgttcacg ttgttcacat 2040
 cccatgtaga aaaataaaga tgccacggag gaggt 2075

<210> 455
 <211> 1285
 <212> DNA
 <213> Homo sapiens

<400> 455

```

gggctgcctg tgacgcgcgg cgcggtcggt cctgcctgta acggcggcgg cggctgctgc      60
tccagacacc tgcggcggcg gcggcgaccc cgcggcgggc gcggagatgt ggccccctggt      120
agcggcgctg ttgctgggct cggcgtgctg cggatcagct cagctactat ttaataaaac      180
aaaatctgta gaattcacgt tttgtaatga cactgtcgtc attccatgct ttgttactaa      240
tatggaggca caaaacacta ctgaagtata cgtaaagtgg aaatttaaag gaagagatat      300
ttacaccttt gatggagctc taaacaagtc cactgtcccc actgacttta gtagtgcaaa      360
aattgaagtc tcacaattac taaaaggaga tgccctcttg aagatggata agagtgatgc      420
tgtctcacac acaggaaact acacttgtga agtaacagaa ttaaccagag aagggtgaaac      480
gatcatcgag ctaaaatata gtgttgtttc atggttttct ccaaataaaa atattcttat      540
tgttattttc ccaatttttg ctatactcct gttctgggga cagtttggtg ttaaaacact      600
taaatataga tccggtggta tggatgagaa aacaattgct ttacttggtg ctggactagt      660
gatcactgtc attgtcattg ttggagccat tcttttcgtc ccaggatgaat attcattaaa      720
gaatgctact ggccttggtt taattgtgac ttctacaggg atattaatat tacttacta      780
ctatgtgttt agtacagcga ttggattaac ctccttcgtc attgccatat tggttattca      840
ggatgatagc tatatcctcg ctgtggttgg actgagtcctc tgtattgcgg cgtgtatacc      900
aatgcatggc cctcttctga tttcagggtt gagtatctta gctctagcac aattacttgg      960
actagtttat atgaaatttg tggcttccaa tcagaagact atacaacctc ctaggaaagc     1020
tgtagaggaa ccccttaatg cattcaaaga atcaaaagga atgatgaatg atgaataact     1080
gaagtgaagt gatggactcc gatttgagaa gtagtaagac gtgaaaggaa tacacttctg     1140
tttaagcacc atggccttga tgattcactg ttggggagaa gaaacaagaa aagtaactgg     1200
ttgtcaccta tgagaccctt acgtgattgt tagttaagtt ttattcaaaa gcagctgtaa     1260
tttagttaat aaaataatta tgatec                                           1285

```

<210> 456
<211> 1188
<212> DNA
<213> Homo sapiens

```

<400> 456
atggcgcccc gaagcctcct cctgctgctc tcaggggccc tggccctgac cgatacttgg      60
gcgggctccc actccttgag gtatttcagc accgctgtgt cgcggcccg cgcgggggag      120
ccccgctaca tcgccgtgga gtacgtagac gacacgcaat tcctgcgggt cgacagcgac      180
gccgcgattc cgaggatgga gccgcgggag ccgtgggtgg agcaagaggg gccgcagtat      240
tgggagtgga ccacagggtg cgccaaggcc aacgcacaga ctgaccgagt ggccctgagg      300

```

aacctgctcc gccgctacaa ccagagcgag gctgggtctc acaccctcca gggaatgaat 360
 ggctgcgaca tggggcccgga cggacgcctc ctccgcgggt atcaccagca cgcgtacgac 420
 ggcaaggatt acatctccct gaacgaggac ctgcgctcct ggaccgcggc ggacaccgtg 480
 gctcagatca cccagcgctt ctatgaggca gaggaatatg cagaggagtt caggacctac 540
 ctggagggcg agtgccctgga gttgctccgc agatacttgg agaattggaa ggagacgcta 600
 cagcgcgcag atcctccaaa ggcacacggt gccaccacc ccatctctga ccatgaggcc 660
 accctgaggt gctgggccct gggcttctac cctgcggaga tcacgctgac ctggcagcgg 720
 gatggggagg aacagaccca ggacacagag cttgtggaga ccaggcctgc aggggatgga 780
 accttccaga agtgggccgc tgtggtggtg ctttctggag aggaacagag atacacatgc 840
 catgtgcagc acgaggggct gccccagccc ctcatcctga gatgggagca gtctccccag 900
 cccaccatcc ccatcgtagg catcggtgct ggccttggtg tccttgagc tgtggtcact 960
 ggagctgtgg tcgctgctgt gatgtggagg aagaagagct cagatagaaa cagagggagc 1020
 tactctcagg ctgcagtcac tgacagtgc cagggtctctg ggggtgtctct cacagctaatt 1080
 aaagtgtgag acagcttcct tgtgtgggac tgagaagcaa gatatcaatg tagcagaatt 1140
 gcacttgtgc ctacgaaca tacataaatt ttaaaaataa agaataaa 1188

<210> 457
 <211> 1727
 <212> DNA
 <213> Homo sapiens

<400> 457
 ctacagaaaa tgggttaaga gtatacgcat ttcacaaac acatataggg gaaaaaatcc 60
 ttcaatttag agttaataa ctacgctttg tatagtagag ttagcgctcc agtatctaac 120
 aatctcagaa tcctctctga aaactggtaa ctatgcttcc atttttaatt ttgtcctaaa 180
 tatcagatgt ctttgatgta agggtaggga atggagaaat attttcaatt gtgtatttgt 240
 attacaaaga acttgaaatt tactttctta gttgattata ttaaatgatg tatatattat 300
 atgtggttta taagctcaac actggccatt ttttttagtt ttattgttaa atggatattt 360
 tctatgttta attataatag atctggcttt ttctggatag cataaagatc actgaactat 420
 atatatataa gaaacaagag ttctatttta gcacaaaggc attttatatt atttattgaa 480
 tccataagtt tgttttcgtc aaaaacattc catattattt ctgctccttt ttatttgtat 540
 agtttgttat ttaaagaaat ggcagtcctt cctgttctta atacaataaa attgaaataa 600
 tgcacctagt aatgtggccg acatctcttc tcaccacat ggactgtttt caacaacagt 660
 tgatcttctg gtctgtgctg agaggcgcat gcatgtcttt cgtcacgtcg ggcagcacac 720

```

ctgctgtgaa atactgcttt catctacctc ttcagaaggc ttcttgcttg ttgacaagta    780
ccgcaaaggc tttattcttg actggctatc tcataaaagg atttctgtaa gactttgcag    840
tgtcattccc tcagaacctt ggtttgtttc taaagccacg gtattgtcca ggagcccttg    900
tgtgtggggc aggtagctat cctcccatg tcattagtaa tcctttagga ttaaggtac    960
aactggacag catcattcct tccccctatt gtgccaaatc cccaccatca gccttgccat   1020
tgccttaaga tttgattatt gcacccaatt acctaaccac taaacagaaa ggccaccttc   1080
actctttgaa aaaggcaagc tgtgcttaga aacactgctt ttaagagtag cacatttgag   1140
tgtgactttt tcccccttc actatttcaa aatggttttg aaatgggggc ttaaaggtaa   1200
gcgccctcat acatgactga aactttgtga gaggtcttat atttgaatgg acccttaatg   1260
atztatgtga aatagaatga agtcctgtct ctgtgagaga acgtgcctcc tctactatct   1320
gtctctgtct gttttcatag ccatcaatat agtaacatat ttactatatt cttgaatacc   1380
cttgaagaaa gaaatccgtt ttctattgtg cattgctata cgaagtgaag ccagtaaact   1440
agatactgta aatctagata ttgtacctag acaaaatatc attggttcta tctctttttg   1500
tatctgttgt gccaggggaag gtttataatc ccttctcagt atacactcac tagtgcacgt   1560
ctgaaatagt atcccacggg agatgtgtct ccacgtctga ggtcacctgc cctgtgtggg   1620
gcacaccacc gtcagcacca ccgtttttac agttactttg gagctgctag actggttttc   1680
tgtgttggtt aattgcctat ataaatctga ataaaaagga tctgtac    1727

```

<210> 458
 <211> 1046
 <212> DNA
 <213> Homo sapiens

```

<400> 458
ataaacaact tgatgcagat gtttccccca agcccactat ttttcttctt tcgattgctg    60
aaacaaaact ccagaaggct ggaacatatc tttgtcttct tgagaaatct tcccagata    120
ttattaagat acattggcaa gaaaagaaga gcaacacgat tctgggatcc caggagggga    180
acaccatgaa gactaacgac acatacatga aatttagctg gttaacggtg ccagaagagt    240
cactggacaa agaacacaga tgtatcgtca gacatgagaa taataaaaac ggaattgatc    300
aagaaattat ctttctcca ataaagacag atgtcaccac agtggatccc aaagacagtt    360
attcaaaaaga tgcaaatgat gtcaccacag tggatcccaa atacaattat tcaaaggatg    420
caaatgatgt catcacaatg gatcccaaag acaattgggtc aaaagatgca aatgatacac    480
tactgctgca gtcacaaaac acctctgcat attacatgta cctcctcctg ctctcaaga    540
gtgtggtcta ttttgccatc atcacctgct gtctgcttgg aagaacggct ttctgctgca    600

```


atggagagaa atcataacag acggtggcac aaggaggcca tcttttcctc atcggttatt 660
gtccctagaa gcgtcttctg aggatctagt tgggctttct ttctgggttt gggccatttc 720
agttctcatg tgtgtactat tctatcatta ttgtataatg gttttcaaac cagtgggcac 780
acagagaacc tcagtctgta ataacaatga ggaatagcca tggcgatctc cagcaccaat 840
ctctccatgt tttccacagc tcctccagcc aacccaaata gcgcctgcta tagtgtagac 900
agcctgcggc ttctagcctt gtccctctct tagtgttctt taatcagata actgcctgga 960
agcctttcat ttacacgcc ctgaagcagt cttctttgct agttgaatta tgtgggtgtgt 1020
ttttccgtaa taagcaaat aaattt 1046

<210> 459
<211> 169
<212> DNA
<213> Homo sapiens

<400> 459
cgtgtttgca gcctctagaa aagaagtgta attataaaaa acatttacca taaccgtaac 60
aatgaatgaa gaaaggaaga cttgggttctt ctagctctgg acaaaattcc atttttttta 120
aaaaaaatat tgatttccag ctgaagtata gtacatctct gatgttttc 169

<210> 460
<211> 4465
<212> DNA
<213> Homo sapiens

<400> 460
caattgtcat acgacttgca gtgagcgtca ggagcacgtc caggaactcc tcagcagcgc 60
ctccttcagc tccacagcca gacgcctca gacagcaaag cctacccccg cgccgcgccc 120
tgcccgccgc tcggatgctc gcccgcgccc tgctgctgtg cgcggtcctg gcgctcagcc 180
atacagcaaa tccttgctgt tcccacccat gtcaaaaccg aggtgtatgt atgagtgtgg 240
gatttgacca gtataagtgc gattgtaccc ggacaggatt ctatggagaa aactgctcaa 300
caccggaatt ttgacaaga ataaaattat ttctgaaacc cactccaaac acagtgcact 360
acatacttac ccacttcaag ggattttgga acgttgtgaa taacattccc ttccttcgaa 420
atgcaattat gagttatgtc ttgacatcca gatcacattt gattgacagt ccaccaactt 480
acaatgctga ctatggctac aaaagctggg aagccttctc taacctctcc tattatacta 540
gagcccttcc tcctgtgcct gatgattgcc cgactccctt ggggtgtcaaa ggtaaaaagc 600
agcttctga ttcaaagag atttgtgaaa aattgcttct aagaagaaag ttcattccctg 660
atccccaggg ctcaaacatg atgtttgcat tctttgcca gcacttcacg catcagtttt 720
tcaagacaga tcataagcga gggccagctt tcaccaacgg gctgggcat ggggtggact 780

taaatcatat ttacggtgaa actctggcta gacagcgtaa actgcgcctt ttcaaggatg	840
gaaaaatgaa atatcagata attgatggag agatgtatcc tcccacagtc aaagatactc	900
aggcagagat gatctaccct cctcaagtcc ctgagcatct acggtttgct gtggggcagg	960
aggctctttgg tctggtgcct ggtctgatga tgtatgccac aatctggctg cgggaacaca	1020
acagagtatg cgatgtgctt aaacaggagc atcctgaatg gggatgatgag cagttgttcc	1080
agacaagcag gctaatactg ataggagaga ctattaagat tgtgattgaa gattatgtgc	1140
aacacttgag tggctatcac ttcaaactga aatttgaccc agaactactt ttcaacaaac	1200
aattccagta ccaaaatcgt attgctgctg aatttaacac cctctatcac tggcatcccc	1260
ttctgcctga cacctttcaa attcatgacc agaaatacaa ctatcaacag tttatctaca	1320
acaactctat attgctggaa catggaatta cccagtttgt tgaatcattc accaggcaaa	1380
ttgctggcag ggttgctggt ggtaggaatg ttccaccgc agtacagaaa gtatcacagg	1440
cttccattga ccagagcagg cagatgaaat accagtcttt taatgagtac cgcaaacgct	1500
ttatgctgaa gccctatgaa tcatttgaag aacttacagg agaaaaggaa atgtctgcag	1560
agttggaagc actctatggt gacatcgatg ctgtggagct gtatcctgcc cttctggtag	1620
aaaagcctcg gccagatgcc atctttggtg aaaccatggt agaagttgga gcaccattct	1680
ccttgaaagg acttatgggt aatgttatat gttctcctgc ctactggaag ccaagcactt	1740
ttggtggaga agtgggtttt caaatcatca aactgcctc aattcagtct ctcatctgca	1800
ataacgtgaa gggctgtccc ttacttcat tcagtgttcc agatccagag ctcatataaa	1860
cagtcaccat caatgcaagt tcttcccgt cggactaga tgatatcaat cccacagtac	1920
tactaaaaga acgttcgact gaactgtaga agtctaata tcatatttat ttatttatat	1980
gaaccatgtc tattaattta attatttaaat aatatttata ttaaactcct tatgttactt	2040
aacatcttct gtaacagaag tcagtactcc tgttgaggag aaaggagtca tacttgtaga	2100
gacttttatg tcactactct aaagattttg ctgttgctgt taagtttgga aaacagtttt	2160
tattctgttt tataaaccag agagaaatga gttttgacgt ctttttactt gaatttcaac	2220
ttatattata agaacgaaag taaagatggt tgaatactta aacactatca caagatggca	2280
aatgctgaa agtttttaca ctgtcgatgt ttccaatgca tcttccatga tgcattagaa	2340
gtaactaatg tttgaaattt taaagtactt ttggttattt ttctgtcatc aaacaaaaac	2400
aggatcagt gcattattaa atgaatatat aaattagaca ttaccagtaa tttcatgtct	2460
actttttaaa atcagcaatg aaacaataat ttgaaatttc taaattcata gggtagaatc	2520
acctgtaaaa gcttgtttga tttcttaaag ttattaaact tgtacatata ccaaaaagaa	2580

gctgtcttgg atttaaactct gtaaaatcag atgaaatttt actacaattg cttgttaaaa	2640
tatttttataa gtgatgttcc tttttcacca agagtataaa ccttttttagt gtgactgtta	2700
aaacttcctt ttaaataaaa atgccaaatt tattaagggtg gtggagccac tgcagtgtta	2760
tctcaaaata agaataatctt gttgagatat tccagaatct gtttatatgg ctggtaacat	2820
gtaaaatcta tatcagcaaa aggggtctacc tttaaaataa gcaataacaa agaagaaaac	2880
caaattattg ttcaaattta gggttaaaact tttgaagcaa actttttttt atccttgtgc	2940
actgcaggcc tggactcag attttgcctat gaggttaatg aagtaccaag ctgtgcttga	3000
ataacgatat gttttctcag attttctgtt gtacagttta atttagcagt ccatatcaca	3060
ttgcaaaaagt agcaatgacc tcataaaaata cctcttcaaa atgcttaaat tcatttcaca	3120
cattaatctt atctcagctc tgaagccaat tcagtaggtg catttgaatc aagcctggct	3180
acctgcatgc tgttcctttt cttttcttct ttttagccatt ttgctaagag acacagtctt	3240
ctcatcactt cgtttctcct attttgtttt actagtttta agatcagagt tcactttctt	3300
tggactctgc ctatatcttc ttacctgaac ttttgcaagt tttcaggtaa acctcagctc	3360
aggactgcta tttagctcct cttaagaaga ttaaaagaga aaaaaaagg cccttttaaa	3420
aatagtatac acttatttta agtgaaaagc agagaatctt atttatagct aattttagct	3480
atctgtaacc aagatggatg caaagaggct agtgccctcag agagaactgt acggggtttg	3540
tgactggaaa aagttacgtt cccattctaa ttaatgcctt ttcttattta aaaacaaaac	3600
caaatgatat ctaagtagtt ctcagcaata ataataatga cgataatact tcttttccac	3660
atctcattgt cactgacatt taatgggtact gtatatctact taatttattg aagattatta	3720
tttatgtctt attaggacac tatgggtata aactgtgttt aagcctacaa tcattgattt	3780
ttttttgtta tgtcacaatc agtatatctt ctttgggggtt acctctctga atattatgta	3840
aacaatccaa agaaatgatt gtattaagat ttgtgaataa attttttagaa atctgattgg	3900
catattgaga tattttaagg tgaatgtttg tccttaggat aggcctatgt gctagccac	3960
aaagaatatt gtctcattag cctgaatgtg ccataagact gaccttttaa aatgttttga	4020
gggatctgtg gatgcttcgt taatttgttc agccacaatt tattgagaaa atattctgtg	4080
tcaagcactg tgggttttaa tttttttaa tcaaagctg attacagata atagtattta	4140
tataaataat tgaaaaaaat tttcttttgg gaagagggtg aaaatgaaat aaatatcatt	4200
aaagataact caggagaatc ttctttacaa ttttacgtt agaatgttta aggttaagaa	4260
agaaatagtc aatatgcttg tataaaacac tgttcactgt tttttttaa aaaaaactt	4320
gatttggtat taacattgat ctgctgacaa aacctgggaa tttgggttgt gtatgcgaat	4380
gtttcagtgc ctcagacaaa tgtgtattta acttatgtaa aagataagtc tggaaataaa	4440

tgtctgttta tttttgtact attta

4465

<210> 461
 <211> 3056
 <212> DNA
 <213> Homo sapiens

<400> 461
 agcgggattt gcgtcccga agcggcgggtg gcggccgcgg cgtaggcgga ggagattttc 60
 ggacctgcga cttccgaaca accctggcag gaggagcggc gttagccgg gggaggcctg 120
 aagaaacgct ccggggccca gtggtcttac cctgtctct gcccgaccct gccgcctccc 180
 tcacggagcc agcggccggg taggatgcag acatcagaac gtgaggggag tgggccggag 240
 ctgagcccca gcgtgatgcc cgaggctccc ctggagtctc caccttttcc taccaagtcc 300
 ccagcgtttg accttttcaa cttggttctc tcctacaaga ggctggagat caacctggaa 360
 cccttgaagg atgcagggtga tgggtgttca tacttgetca ggtggcagat gcctttgtgt 420
 tccttgetga cctgcctggg cctcaacgtc ttgttctca ctttgaatga ggggtgcatgg 480
 tactcagtag gtgccctgat gatttcagt cccgccctgc tgggtacct tcaggagggtt 540
 tgccgggcac ggctgcctga ttccgagctg atgcggagga agtatcatag cgtgaggcag 600
 gaggacctgc agagagtctg cctgtctcgt cccgaggccg tggctgaggt gaagagcttc 660
 ttgatccagc tggaggcctt cctgagccgc ctgtgctgca catgtgaagc cgcctaccgc 720
 gtgctgcact gggagaacct cgtcgtgtcc tcacagttct atggggctct tctgggcaca 780
 gtctgcatgc tgtatttgct gccactctgc tgggttctca cccttttaaa cagcacgctc 840
 tttctgggga atgtggagtt cttccgagtt gtgtctgagt acagggcatc tctgcagcag 900
 aggatgaacc caaagcagga agagcatgcc tttgagagtc ctccaccacc agatgttggg 960
 gggaaggatg gtctgatgga cagcacgcct gccctcacac ccacggagga cctcacaccg 1020
 ggcagcgtgg aggaggctga ggaggctgag ccagatgaag agtttaaaga tgcgattgag 1080
 gagaccact tgggtgtgct ggaggatgat gagggcggcc cgtgcccagc agaggatgag 1140
 ctggccctgc aggacaacgg gttcctgagc aagaatgagg tgctgcgag caaggtgtct 1200
 cggctcacgg agcggctccg caagcgtac cccaccaaca acttcgggaa ctgcacgggc 1260
 tgctcgcca ccttctcagt gctgaagaag aggcggagct gcagtaattg tggaaacagc 1320
 ttctgtctc gatgctgtc cttcaagggtg cccaagtcac ccatgggggc cacagcccct 1380
 gaagcccaga gggagactgt gtttgtgtgt gcctcgtgta accagacctt gagcaagtga 1440
 gaagagaggc caggggtcaa ccaggcacc gtccttgggg ccagcagtag accccccact 1500
 ctccccacc ctggccact gtggtgtgtg ctgggcaa atgtggcctgaa tgctaggtag 1560

gcttcccctt ccttcctcac tctctccagc tggattctgg agctgttctc catccatgag 1620
agtggctggc aatggctgct ctcaatccct tgagggagaa gagcccctgg agggcctggc 1680
atgtttgccc tgctctgcct gggactgagc gagtggactt agggctgggc aggcagtagc 1740
caccagaggg cagcagcgaa ctaggccagg cctgactggg gtctgaagat cagggtcagt 1800
gtggctatgc ctgggaattc cagacctgag gttgggaaaa gaggtttttc tcctgcaggg 1860
tactgggcca ggccctcagc ctcagagagc ctgcagaagg gcttgggagt gccacacccc 1920
atctctgctg attgaatgtc cctccaggca ccaggatctc atcatttccc catcagaggg 1980
tgtggccagg cctaacaaga ccatgggtgc ttctagaaac agggttgaag ttcccagatt 2040
ccctgagagg agaatgtgta taggagggtt tggctgagtc cttcagcgtt aagtggagga 2100
aagcttgggg aagccccaat agctggacag acctcagcct cccctcgaag acacctcaat 2160
tcacagactc tcagcccaca caatgcccga gtgtccccag ctccgctgga gcagctgcag 2220
ggcacttggg tcacaacttc tgcacctct gtccagagtc tagggcagtc ctccactggc 2280
ccagcactcc agtttccctt ccctgcctct tgtccaatgg agtgggaggg caggtgagtg 2340
gagcagaggt cctgaagccc ttgacctctg ggggcctggg tagtgtagga tctcgctggg 2400
ctgggtcctg gattccaggg ctattccctg gaggacagtc tcagttatgg gataaggccc 2460
cctgggggtc tccatttctt tccaacagtt tcatgttcac tactggactc ttacgggctc 2520
agtatctctc ccttagccat gagctggctc aggcacccct tcccttccct ggagctgccc 2580
tgcctttctc aagtatttat ttatttattg catggttctt gggaacatgt ggcacaagta 2640
atgggatgag gaggaattgg ggggtgggggt cttctaccta ggactcttcc ctggagtcac 2700
gggctgcctg ggaccagga cccatgaggg ggctgagagg tttctacact cgaggagcag 2760
gggtccagag aggcaggctg gggaggcaag ggacccatcc tagggccgct ttcttgccga 2820
gccaagcagc ttagctgggg ctgtgcagcc aggggcttac ccaggccagt ggaggtgcca 2880
cagccctggg gagccagaca ggctttggta tcgtatcgcc tctgtgtcct tttaagagag 2940
gagagttcag taccctgtgc tttctttaca ctggagagga actaaaagga tctctgtgtc 3000
tatggagaat tgtcaataaa aaggcctcaa gcttcaaaag aaaaaaaaaa aaaaaa 3056

<210> 462

<211> 2615

<212> DNA

<213> Homo sapiens

<400> 462

gaattccggg aagccagacg gttaacacag acaaagtgtc gccgtgacac tcggccctcc 60

agtgttgctg agaggcaaga gcagcgaccg cgcacctgtc cgcccgagagc tgggacgcgc 120

gccccgggcgg ccggacgaag cgaggagggg cgcgcgagggc tgcccccaag tgtaactcca	180
gcactgtgag gtttcagggg ttggcagagg ggaccaaggg gacatgaaaa tggacatgga	240
ggatgcggat atgactctgt ggacagaggc tgagtttgaa gagaagtgtg catacattgt	300
gaacgaccac ccctgggatt ctggtgctga tggcggtact tcggttcagg cggaggcatc	360
cttaccaagg aatctgcttt tcaagtatgc caccaacagt gaagagggtta ttggagtgat	420
gagtaaagaa tacataccaa agggcacacg ttttggaccc ctaatagggtg aaatctacac	480
caatgacaca gtccctaaga acgccaacag gaaatatattt tggaggatct attccagagg	540
ggagcttcac cacttcattg acggctttaa tgaagagaaa agcaactgga tgcgctatgt	600
gaatccagca cactctcccc gggagcaaaa cctggctgcg tgtcagaacg ggatgaacat	660
ctacttctac accattaagc ccatccctgc caaccaggaa cttcttgtgt ggtattgtcg	720
ggactttgca gaaaggcttc actaccctta tcccggagag ctgacaatga tgaatctcac	780
acaaacacag agcagtctaa agcaaccgag cactgagaaa aatgaactct gcccaaagaa	840
tgtcccaaag agagagtaca gcgtgaaaga aatcctaaaa ttggactcca acccctccaa	900
aggaaaggac ctctaccgtt ctaacatttc acccctcaca tcagaaaagg acctcgatga	960
ctttagaaga cgtggggagcc ccgaaatgcc cttctaccct cgggtcgttt accccatccg	1020
ggccccctctg ccagaagact ttttgaaagc ttccctggcc tacgggatcg agagaccac	1080
gtacatcact cgctccccca ttccatcctc caccactcca agccccctctg caagaagcag	1140
ccccgaccaaa agcctcaaga gctccagccc tcacagcagc cctgggaata cgggtgtcccc	1200
tgtggggcccc ggctctcaag agcaccggga ctccctacgct tacttgaacg cgctctacgg	1260
cacggaagggt ttgggctcct accctggcta cgcaccctg cccacctec cgccagcttt	1320
catccccctcg tacaacgctc actaccccaa gtctctcttg cccccctacg gcatgaattg	1380
taatggcctg agcgctgtga gcagcatgaa tggcatcaac aactttggcc tcttcccgag	1440
gctgtgccct gtctacagca atctctctcg tgggggcagc ctgccccacc ccatgctcaa	1500
ccccacttct ctcccagact cgctgccctc agatggagcc cggagggttg tccagccgga	1560
gcatcccagg gaggtgcttg tcccggcgcc ccacagtgcc ttctccttta ccggggccgc	1620
cgccagcatg aaggacaagg cctgtagccc cacaagcggg tctcccacgg cggaacagc	1680
cgccacggca gaacatgtgg tgcagccaa agctacctca gcagcgatgg cagccccag	1740
cagcgacgaa gccatgaatc tcattaaaaa caaaagaaac atgaccggct acaagaccct	1800
tccctacccg ctgaagaagc agaacggcaa gatcaagtac gaatgcaacg tttgcgccaa	1860
gactttcggc cagctctcca atctgaaggc ccacctgaga gtgcacagtg gagaacggcc	1920

```

tttcaaatgt cagacttgca acaagggctt tactcagctc gcccacctgc agaaacacta 1980
cctggtacac acgggagaaa agccacatga atgccaggtc tgccacaaga gatttagcag 2040
caccagcaat ctcaagaccc acctgcgact ccattctgga gagaaaccat accaatgcaa 2100
ggtgtgccct gccaaagttca cccagtttgt gcacctgaaa ctgcacaagc gtctgcacac 2160
ccgggagcgg ccccaacaagt gctcccagtg ccacaagaac tacatccatc tctgtagcct 2220
caagggtcac ctgaaagggga actgcgctgc ggccccggcg cctgggctgc ccttggaaga 2280
tctgaccgga atcaatgaag aaatcgagaa gtttgacatc agtgacaatg ctgaccggct 2340
cgaggacgtg gaggatgaca tcagtgtgat ctctgtagtg gagaaggaaa ttctggccgt 2400
ggtcagaaaa gagaaagaag aaactggcct gaaagtgtct ttgcaaagaa acatggggaa 2460
tggaactctc tcctcagggg gcagccttta tgagtcatca gatctacccc tcatgaagtt 2520
gcctcccagc aaccactac ctctgggtacc tgtaaaggtc aaacaagaaa cagttgaacc 2580
aatggatcct taagattttc agaaaacact tattt 2615

```

```

<210> 463
<211> 1432
<212> DNA
<213> Homo sapiens

```

```

<400> 463
gctgttcggc ctgctgctgct ccgggagctg ccgacggacg gagcgcccc gccccgccc 60
ggcgcggcgc ccgcccgcgc catgcccttc tccaacagcc acaacgcact gaagctgcgc 120
ttcccggccg aggacgagtt ccccgacctg agcgcccaca acaaccacat ggccaagggtg 180
ctgacccccg agctgtacgc ggagctgcgc gccaaagagca cgccgagcgg cttcacgctg 240
gacgacgtca tccagacagg cgtggacaac ccggggccacc cgtacatcat gaccgtgggc 300
tgcgtagcgg gcgacgagga gtcctacgaa gtgttcaagg atctcttcga ccccatcatc 360
gaggaccggc acggcggtta caagcccagc gatgagcaca agaccgacct caaccccgac 420
aacctgcagg gcggcgacga cctggacccc aactacgtgc tgagctcgcg ggtgcgcacg 480
ggcgcagca tccgtggctt ctgcctcccc ccgcactgca gccgcgggga gcgcgcgcc 540
atcgagaagc tcgcggtgga agccctgtcc agcctggacg gcgacctggc gggccgatac 600
tacgcgctca agagcatgac ggaggcggag cagcagcagc tcatcgacga ccacttcctc 660
ttcgacaagc ccgtgtcgcc cctgctgctg gcctcgggca tggcccgcga ctggcccgac 720
gcccgcggta tctggcacia tgacaataag accttcctgg tgtgggtcaa cgaggaggac 780
cacctgcggg tcatctccat gcagaagggg ggcaacatga aggaggtgtt caccgccttc 840
tgcaccggcc tcaccagat tgaaactctc ttcaagtcta aggactatga gttcatgtgg 900

```

aaccctcacc	tgggctacat	cctcacctgc	ccatccaacc	tgggcaccgg	gctgcgggca	960
ggtgtgcata	tcaagctgcc	caacctgggc	aagcatgaga	agttctcgga	ggtgcttaag	1020
cggctgcgac	ttcagaagcg	aggcacaggc	ggtgtggaca	cggctgcggt	gggcggggtc	1080
ttcgacgtct	ccaacgctga	ccgcctgggc	ttctcagagg	tggagctggt	gcagatggtg	1140
gtggacggag	tgaagctgct	catcgagatg	gagcagcggc	tggagcaggg	ccaggccatc	1200
gacgacctca	tgcctgcca	gaaatgaagc	ccggcccaca	cccgaacca	gccctgctgc	1260
ttcctaactt	attgcctggg	cagtgccac	catgcacccc	tgatgttcgc	cgtctggcga	1320
gcccttagcc	ttgctgtaga	gacttccgtc	acccttggtg	gagtttattt	ttttgatggc	1380
taagatactg	ctgatgctga	aataaactag	ggttttggcc	tgccctgcgtc	tg	1432

<210> 464

<211> 2073

<212> DNA

<213> Homo sapiens

<400> 464

ggggcgcccc	gggatatttg	gaggataaag	ggtgatgacc	acacctgccg	gctccggcag	60
cggcttcggc	tccgtgtcct	ggtggggcct	gtccccggcg	ctggacctgc	aggctgaaag	120
tcctcctgtg	gacccagact	cccaggccga	tacagtgcac	agcaaccccc	agctagatgt	180
gctgcttctg	ggctctgtgg	atggacggca	cctgctgcgg	accctgtccc	gagcgaagtt	240
ctggcctcgc	aggaggttca	acttctttgt	gctggagaat	aatctggaag	ctgtggcccc	300
acacatgctg	atcttcagcc	tagccctgga	ggaaccggag	aagatggggc	tgcaagagcg	360
aagcgagacc	ttcctggaag	tgtgggggaa	cgcgctgctg	cgcccgccag	tggccgcctt	420
cgtgogtgcc	caggccgacc	tgctggcgca	cctgggtccc	gagcccagacc	gcctggagga	480
acagctgccc	tggctcagcc	tccgcgcctt	caagttccgc	gagcgggatg	ccctggaggc	540
cgtattccgc	ttctgggctg	gcggcgagaa	agggccccag	gcgttcccca	tgagccgcct	600
ctgggactcg	cgctgcgcc	actacctggg	ctcccgttac	gacgcccggc	gcggtgtcag	660
cgactgggac	ctgcgcatga	agctgcatga	ccgcggggct	caagtcattc	acccccagga	720
gttccgacgc	tggcgggaca	caggcgtcgc	ctttgaactc	agggactcca	gcgcctatca	780
tgtgcccac	cggacctgg	cgtccggctg	cctcctgagc	taccgtgggg	agcgcgtggc	840
agcgcgcggg	tactgggggg	acatcgccac	ggggcccttc	gtggccttcg	gcatcgaagc	900
ggacgacgag	agcctcctgc	ggacgagcaa	cggccagcca	gtcaagacgg	ccggggagat	960
cactcaacac	aacgtgacgg	agctgctccg	cgacgtggcc	gcctgggggg	gcgcgagagc	1020
caccgggggg	gacctggagg	agcagcagca	cgcggaggga	agcccggagc	cagggactcc	1080


```

agcagccccg acccccggaat ctttcaccgt ccacttctctg ccgctcaatt ctgctcagac 1140
tctccaccac aagagctgct acaacggccg attccagctc ctctatgtgg cctgtggtat 1200
gggtccatctt ctcatccctg agcttggggc ctgtgtggca cccggaggga acttgattgt 1260
ggaattagcc cggtagctgg tggacgtgcg gcaggagcag ctgcagggat tcaacacccg 1320
ggtcagggag ctagctcagg cagctggatt tgctccacag accggggcca ggccttcaga 1380
gaccttcgca cgtttctgca agtcccagga atcagctctg ggcaacactg tcccagctgt 1440
ggaacccgga actccgcccc ttgacatcct ggcccagcct cttgaagcca gcaaccagc 1500
ccttgagggc ctgaccagc ctctgcaggg tgggaccca cactgtgagc cctgccagct 1560
gccctctgag tctccagggt cactctcaga ggttctggct cagcctcagg gggccttggc 1620
tccgccaac tgtgagtcag actccaaaac tggagtctga cccaaccct agacaccct 1680
tatctccaac ttccaaagtc aggttgtagg atgagaacct gctgatacca ttctaagtcc 1740
gctgctagag tcctcaattt tattctaata attcccactc agtaccgcgc acccccaccc 1800
cgggagtggt ggtagacttt caaattccat ttctgagatt ctatgggtcta ttcctagaat 1860
tctagattgt tctctcagaa ttccaaattc cacttctgag gctctaagcc cagcctagga 1920
tctgacactg agtctcaggc ccttgacttt ggcccccttg ttcccaggca ccctgtggct 1980
gactaggggc tgggggtgtct cctcaccagg gcctggtcag caccagatg gttcaagtaa 2040
agcaagttgt gtccacaaa aaaaaaaaaa aaa 2073

```

<210> 465
<211> 1124
<212> DNA
<213> Homo sapiens

```

<400> 465
cgggaaacct gcactgactt ttttctcctt ttggagggag agcagagacc atgtctgaca 60
tagaagaggt ggtggaagag tacgaggagg aggagcagga agaagcagct gttgaagagc 120
aggaggaggc agcgggaagag gatgctgaag cagaggctga gaccgaggag accagggcag 180
aagaagatga agaagaagag gaagcaaagg aggctgaaga tggcccaatg gaggagtcca 240
aaccaaagcc caggtcgttc atgcccaact tgggtgcctcc caagatcccc gatggagaga 300
gagtggactt tgatgacatc caccggaagc gcatggagaa ggacctgaat gagttgcagg 360
cgctgattga ggctcacttt gagaacagga agaagaggga ggaggagctc gtttctctca 420
aagacaggat cgagagacgt cgggcagagc gggccgagca gcagcgcac cggaatgagc 480
gggagaagga gcggcagaac cgctggctg aagagagggc tcgacgagag gaggaggaga 540
acaggaggaa ggctgaggat gaggcccga agaagaaggc tttgtccaac atgatgcatt 600

```

ttgggggtta catccagaag caggcccaga cagagcggaa aagtgggaag aggcagactg	660
agcgggaaaa gaagaagaag attctggctg agaggaggaa ggtgctggcc attgaccacc	720
tgaatgaaga tcagctgagg gagaaggcca aggagctgtg gcagagcatc tataacttgg	780
aggcagagaa gtctgacctg caggagaagt tcaagcagca gaaatatgag atcaatgttc	840
tccgaaacag gatcaacgat aaccagaaaag tctccaagac ccgcggaag gctaaagtca	900
ccgggcgctg gaaatagagc ctggcctcct tcaccaaaga tctgctcctc gctcgcacct	960
gcctccggcc tgcactcccc cagttcccgg gccctcctgg gcaccccagg cagctcctgt	1020
ttggaaatgg ggagctggcc taggtgggag ccaccactcc tgctgcccc cacaccact	1080
ccacaccagt aataaaaagc caccacacac tgaaaaaaaa aaaa	1124

<210> 466
 <211> 1066
 <212> DNA
 <213> Homo sapiens

<400> 466	
acccagctg ttggggccag gacaccagct gagccatac ttgctctttt tgtcttcttc	60
agactgcgcc atggggctca gcgacgggga atggcagttg gtgctgaacg tctgggggaa	120
ggtggaggct gacatcccag gccatgggca ggaagtcctc atcaggctct ttaagggtca	180
cccagagact ctggagaagt ttgacaagtt caagcacctg aagtcagagg acgagatgaa	240
ggcatctgag gacttaaaga agcatggtgc cactgtgctc accgccctgg gtggcatcct	300
taagaagaag gggcatcatg aggcagagat taagcccctg gcacagtcgc atgccaccaa	360
gcacaagatc cccgtgaagt acctggagtt catctcggaa tgcacatcc aggttctgca	420
gagcaagcat cccggggact ttggtgctga tgcccagggg gccatgaaca aggccctgga	480
gctgttccgg aaggacatgg cctccaacta caaggagctg ggcttccagg gctaggcccc	540
tgccgctccc acccccaccc atctgggccc cgggttcaag agagagcggg gtctgatctc	600
gtgtagccat atagagtttg cttctgagtg tctgctttgt ttagtagagg tgggcaggag	660
gagctgaggg gctggggctg ggggtgtgaa gttggctttg catgcccagc gatgcgcctc	720
cctgtgggat gtcacacccc tgggaaccgg gagtgcctt ggctcactgt gttctgcatg	780
gtttggatct gaattaattg tcctttcttc taaatcccaa ccgaacttct tccaacctcc	840
aaactggctg taaccccaaa tccaagccat taactacacc tgacagtagc aattgtctga	900
ttaatcactg gcccttgaa gacagcagaa tgtccctttg caatgaggag gagatctggg	960
ctgggcgggc cagctgggga agcatttgac tatctggaac ttgtgtgtgc ctctcaggt	1020
atggcagtga ctacctggg tttaataaaa caacctgcaa catctc	1066

<210> 467
 <211> 3144
 <212> DNA
 <213> Homo sapiens

<400> 467

```

atgggtcagaa agcctgttgt gtccaccatc tccaaaggag gttacctgca gggaaatgtt      60
aacgggagggc tgccttcctt gggcaacaag gagccacctg ggcaggagaa agtgcagctg      120
aagaggaaag tcactttact gaggggagtc tccattatca ttggcaccat cattggagca      180
ggaatcttca tctctcctaa gggcgtgctc cagaacacgg gcagcgtggg catgtctctg      240
accatctgga cgggtgtgtg ggtcctgtca ctatttggag ctttgtctta tgctgaattg      300
ggaacaacta taaagaaatc tggaggtcat tacacatata ttttggaagt ctttgggtcca      360
ttaccagctt ttgtacgagt ctgggtggaa ctctcataa tacgccttgc agctactgct      420
gtgatatccc tggcatttgg acgtacatt ctggaaccat tttttattca atgtgaaatc      480
cctgaacttg cgatcaagct cattacagct gtgggcataa ctgtagtgat ggtcctaaat      540
agcatgagtg tcagctggag cgcccgatc cagattttct taaccttttg caagctcaca      600
gcaattctga taattatagt ccctggagtt atgcagctaa ttaaagggtca aacgcagaac      660
tttaaagacg cgttttcagg aagagattca agtattacgc gggtgccact ggctttttat      720
tatggaatgt atgcatatgc tggctggttt tacctcaact ttgttactga agaagtagaa      780
aaccctgaaa aaaccattcc ccttgcaata tgtatatcca tggccattgt caccattggc      840
tatgtgctga caaatgtggc ctactttacg accattaatg ctgaggagct gctgctttca      900
aatgcagtgg cagtgcctt ttctgagcgg ctactgggaa atttctcatt agcagttccg      960
atctttgttg ccctctcctg ctttggctcc atgaacggtg gtgtgtttgc tgtctccagg     1020
ttattctatg ttgcgtctcg agagggtcac cttccagaaa tcctctccat gattcatgtc     1080
cgcaagcaca ctctctacc agctgttatt gttttgcacc ctttgacaat gataatgctc     1140
ttctctggag acctcgacag tcttttgaat ttctcagtt ttgccaggtg gctttttatt     1200
gggctggcag ttgctgggct gatttatctt cgatacaaat gccagatat gcacgtcctt     1260
ttcaagggtg cactgttcat cccagctttg ttttccttca catgcctctt catggttgcc     1320
ctttccctct attcggaccc atttagtaca gggattggct tcgtcatcac tctgactgga     1380
gtccctgcgt attatctctt tattatatgg gacaagaaac ccagggtggt tagaataatg     1440
tcagagaaaa taaccagaac attacaaata atactggaag ttgtaccaga agaagataag     1500
ttatgaacta atggacttga gatcttggca atctgcccaa ggggagacac aaaataggga     1560
tttttacttc attttctgaa agtctagaga attacaactt tggtgataaa caaaaggagt     1620

```

```

cagttatattt tattcatata ttttagcata ttcgaactaa tttctaagaa atttagttat 1680
aactctatgt agttatagaa agtgaatatg cagttattct atgagtcgca caattcttga 1740
gtctctgata cctacctatt ggggttagga gaaaagacta gacaattact atgtgggtcat 1800
tctctacaac atatgttagc acggcaaaga accttcaa at tgaagactga gatttttctg 1860
tatatatggg ttttgtaaag atggttttac aactacaga tgtctatact gtgaaaagtg 1920
ttttcaattc tgaaaaaaag catacatcat gattatggca aagaggagag aaagaaattt 1980
attttacatt gacattgcat tgcttcccct tagataccaa tttagataac aaacactcat 2040
gctttaatgg attataccca gagcactttg aacaaagggtc agtggggatt gttgaatata 2100
ttaaagaaga gtttctaggg gctactgttt atgagacaca tccaggagtt atgtttaagt 2160
aaaaatcctt gagaatttat tatgtcagat gttttttcat tcattatcag gaagtttttag 2220
ttatctgtca tttttttttt tcacatcagt ttgatcagga aagtgtataa cacatcttag 2280
agcaagagtt agtttggtat taaatcctca ttagaacaac cacctgtttc actaataact 2340
taccctgat gagtctatct aaacatatgc attttaagcc ttcaaattac attatcaaca 2400
tgagagaaat aaccaacaaa gaagatgttc aaaataatag tcccatatct gtaatcatat 2460
ctacatgcaa tgtagtaat tctgaagttt tttaaattta tggctatttt tacacgatga 2520
tgaattttga cagtttgtgc attttcttta tacattttat attcttctgt taaaatatct 2580
cttcagatga aactgtccag attaattagg aaaaggcata tattaacata aaaattgcaa 2640
aagaaatgtc gctgtaaata agatttacaa ctgatgtttc tagaaaattt ccacttctat 2700
atctaggctt tgtagtaat ttccacacct taattatcat tcaacttgca aaagagacaa 2760
ctgataagaa gaaaattgaa atgagaatct gtggataagt gtttgtgttc agaagatgtt 2820
gttttgccag tattagaaaa tactgtgagc cgggcatggg ggcttacatc tgtaatccca 2880
gcactttggg aggctgaggg ggtggatcac ctgaggtcgg gagttctaga ccagcctgac 2940
caacatggag aaaccccatc tctactaaaa atacaaaatt agctgggcat ggtggcacat 3000
gctggtaatc tcagctattg aggaggctga ggcaggagaa ttgcttgaac ccgggagggc 3060
gaggttgcag tgagccaaga ttgcaccact gtactccagc ctgggtgaca aagtcagact 3120
ccatctccaa aaaaaaaaaa aaaa 3144

```

<210> 468

<211> 1177

<212> DNA

<213> Homo sapiens

<400> 468

```

gccaaaggctg gggcagggga gtcagcagag gcctcgctcg ggcgcccagt ggtcctgccg 60

```

cctgggtctca cctcgctatg gttcgtctgc ctctgcagtg cgtcctctgg ggctgcttgc	120
tgaccgctgt ccattccagaa ccacccactg catgcagaga aaaacagtac ctaataaaca	180
gtcagtgctg ttctttgtgc cagccaggac agaaactggg gagtgactgc acagagttca	240
ctgaaacgga atgccttcct tgcggtgaaa gcgaattcct agacacctgg aacagagaga	300
cacactgccca ccagcacaaa tactgcgacc ccaacctagg gcttcgggtc cagcagaagg	360
gcacctcaga aacagacacc atctgcacct gtgaagaagg ctggcactgt acgagtgagg	420
cctgtgagag ctgtgtcctg caccgctcat gctcgcccgg ctttgggggc aagcagattg	480
ctacaggggt ttctgatacc atctgcgagc cctgcccagt cggtctcttc tccaatgtgt	540
catctgcttt cgaaaaatgt cacccttgga caagctgtga gaccaaagac ctgggtgtgc	600
aacaggcagg cacaacaag actgatgttg tctgtgggtc ccaggatcgg ctgagagccc	660
tggtggtgat ccccatcatc ttccgggatcc tgtttgccat cctcttggtg ctgggtcttta	720
tcaaaaaggt ggccaagaag ccaaccaata agggccccca cccaagcag gaaccccagg	780
agatcaattt tcccgcagat cttcctggct ccaacactgc tgctccagtg caggagactt	840
tacatggatg ccaaccggtc acccaggagg atggcaaaga gagtcgcac tcatgtcagg	900
agagacagtg aggctgcacc caccaggagg tgtggccacg tgggcaaaca ggcagttggc	960
cagagagcct ggtgctgctg ctgctgtggc gtgaggggtga ggggctggca ctgactgggc	1020
atagctcccc gcttctgcct gcacccctgc agtttgagac aggagacctg gcactggatg	1080
cagaaacagt tcaccttgaa gaacctctca cttcacctg gagcccatcc agtctccaa	1140
cttgtattaa agacagaggc agaaaaaaaa aaaaaaa	1177

<210> 469

<211> 1323

<212> DNA

<213> Homo sapiens

<400> 469

gtggagggtg ctgctatgag agagaaaaaa aaaaacagcc acaatagaga ttctgccttc	60
aaagggttggc ttgccacctg aagcagccac tgcccagggg gtgcaaagaa gagacagcag	120
cgcccagctt ggaggtgcta actccagagg ccagcatcag caactgggca cagaaaggag	180
ccgcctgggc agggaccatg gcacggccac atccctggtg gctgtgcgtt ctggggaccc	240
tggtggggct ctcagctact ccagccccc aagagctgcc agagaggcac tactgggctc	300
agggaaagct gtgctgccag atgtgtgagc caggaacatt cctcgtgaag gactgtgacc	360
agcatagaaa ggctgctcag tgtgatcctt gcataccggg ggtctccttc tctcctgacc	420
accacacccg gccccactgt gagagctgtc ggcactgtaa ctctgggtct ctcgttcgca	480

actgcaccat cactgccaat gctgagtgct cctgtcgcaa tggctggcag tgcagggaca 540
 aggagtgcac cgagtgtgat cctcttccaa acccttcgct gaccgctcgg tctgtctcagg 600
 ccctgagccc acaccctcag cccacccact taccttatgt cagtgagatg ctggaggcca 660
 ggacagctgg gcacatgcag actctggctg acttcaggca gctgcctgcc cggactctct 720
 ctaccactg gccaccccaa agatccctgt gcagctccga ttttattcgc atccttgtga 780
 tcttctctgg aatgttcctt gttttcaccc tggccggggc cctgttcctc catcaacgaa 840
 ggaaatatag atcaaacaaa ggagaaagtc ctgtggagcc tgcagagcct tgtcgttaca 900
 gctgccccag ggaggaggag ggcagcacca tccccatcca ggaggattac cgaaaaccgg 960
 agcctgcctg ctccccctga gccagcacct gcgggagctg cactacagcc ctggcctcca 1020
 cccccacccc gccgaccatc caagggagag tgagacctgg cagccacaac tgcagtccca 1080
 tcctcttgct agggcccttt cctgtgtaca cgtgacagag tgcctttctg agactggcag 1140
 ggacgaggac aaatatggat gaggtggaga gtgggaagca ggagcccagc cagctgcgcc 1200
 tgcgctgcag gagggcgggg gctctggtt taaaacacac ttctgctgc gaaagacca 1260
 catgctacaa gacgggcaaa ataaagtgc agatgaccac cctgcaaaaa aaaaaaaaaa 1320
 aaa 1323

<210> 470
 <211> 2781
 <212> DNA
 <213> Homo sapiens

<400> 470
 ggaaggcttg cacaggggtga aagctttgct tctctgctgc tgtaacaggg actagcacag 60
 acacacggat gagtggggctc atttccagat attaggtcac agcagaagca gccaaaatgg 120
 atccccagtg cactatggga ctgagtaaca ttctctttgt gatggccttc ctgctctctg 180
 gtgctgctcc tctgaagatt caagcttatt tcaatgagac tgcagacctg ccatgccaat 240
 ttgcaaactc tcaaaaccaa agcctgagtg agctagtagt attttggcag gaccaggaaa 300
 acttggttct gaatgaggta tacttaggca aagagaaatt tgacagtgtt cattccaagt 360
 atatgggccg cacaagtttt gattcggaca gttggaccct gagacttcac aatcttcaga 420
 tcaaggacaa gggcttgat caatgtatca tccatcaca aaagcccaca ggaatgattc 480
 gcatccacca gatgaattct gaactgtcag tgcttgctaa cttcagtcaa cctgaaatag 540
 taccaatttc taatataaca gaaaatgtgt acataaattt gacctgctca tctatacacg 600
 gttaccaga acctaagaag atgagtgttt tgctaagaac caagaattca actatcgagt 660
 atgatgggat tatgcagaaa tctcaagata atgtcacaga actgtacgac gtttccatca 720

gcttgtctgt ttcattccct gatgttacga gcaatatgac catcttctgt attctggaaa	780
ctgacaagac gcggtcttta tcttcacctt tctctataga gcttgaggac cctcagcctc	840
ccccagacca cattccttgg attacagctg tacttccaac agttattata tgtgtgatgg	900
ttttctgtct aattctatgg aaatggaaga agaagaagcg gcctcgcaac tcttataaat	960
gtggaaccaa cacaatggag agggaagaga gtgaacagac caagaaaaga gaaaaaatcc	1020
atatacctga aagatctgat gaagcccagc gtgtttttta aagttcgaag acatcttcat	1080
gcgacaaaag tgatacatgt ttttaattaa agagtaaagc ccatacaagt attcattttt	1140
tctacccttt cctttgtaag ttctgggca acctttttga tttcttccag aaggcaaaaa	1200
gacattacca tgagtaataa gggggctcca ggactccctc taagtggaat agcctccctg	1260
taactccagc tctgctccgt atgccaagag gagactttta ttctcttact gcttcttttc	1320
acttcagagc acacttatgg gccaaagcca gcttaatggc tcatgacctg gaaataaaat	1380
ttaggaccaa tacctcctcc agatcagatt cttctcttaa tttcatagat tgtgtttttt	1440
tttaaataga cctctcaatt tctggaaaac tgccctttat ctgcccagaa ttctaagctg	1500
gtgccccact gaatcttgtg tacctgtgac taaacaacta cctcctcagt ctgggtggga	1560
cttatgtatt tatgacctta tagtgtaaat atcttgaaac atagagatct atgtactgta	1620
atagtgtgat tactatgctc tagagaaaag tctaccctg ctaaggagtt ctcacccctc	1680
tgtcagggtc agtaaggaaa acgggtggcct agggtagagg caacaatgag cagaccaacc	1740
taaatttggg gaaattagga gaggcagaga tagaacctgg agccacttct atctgggctg	1800
ttgctaatat tgaggaggct tgccccaccc aacaagccat agtggagaga actgaataaa	1860
caggaaaatg ccagagcttg tgaaccctgt ttctcttgaa gaactgacta gtgagatggc	1920
ctggggaagc tgtgaaagaa ccaaagaga tcacaatact caaaagagag agagagagaa	1980
aaaagagaga tcttgatcca cagaaatata tgaaatgtct ggtctgtcca ccccatcaac	2040
aagtcttgaa acaagcaaca gatggatagt ctgtccaaat ggacataaga cagacagcag	2100
tttccctggg ggtcagggag gggttttggg gatacccaag ttattgggat gtcacttcc	2160
tggaagcaga gctggggagg gagagccatc acctgataa tgggatgaat ggaaggaggc	2220
ttaggacttt ccaactctgg ctgagagagg aagagctgca acggaattag gaagaccaag	2280
acacagatca cccggggctt acttagccta cagatgtcct acgggaacgt gggctggccc	2340
agcatagggc tagcaaattt gagttggatg attgtttttg ctcaaggcaa ccagaggaaa	2400
cttgcataca gagacagata tactgggaga aatgactttg aaaacctggc tctaagggtg	2460
gatcactaag ggatggggca gtctctgccc aaacataaag agaactctgg ggagcctgag	2520
ccacaaaaat gttcctttat tttatgtaaa ccctcaaggg ttatagactg ccatgctaga	2580

caagcttgtc catgtaatat tcccatgttt ttaccctgcc cctgccttga ttagactcct	2640
agcacctggc tagtttctaa catgttttgt gcagcacagt ttttaataaa tgcttggttac	2700
attcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	2760
aaaaaaaaaa aaaaaaaaaa a	2781

<210> 471
 <211> 1363
 <212> DNA
 <213> Homo sapiens

<400> 471	
gaggaaaagc ttctggactg ctgaaggccc agcaggaaga gaggctggat gagatcaaca	60
agcaattcct agacgatccc aaatatagca gtgatgagga tctgccctcc aaactggaag	120
gcttcaaagg tgagggggaa actgtaggcg gtggagacag ggctgggggt aggaggggta	180
ggatttccac aagaacaagg caggaacagc agagataaaa agtttacttt tgtggtagca	240
aaaggggaac ctgcctttat tgccctcctg ccacactgcg gtccctttcc cgggcctgcc	300
tctctcagca tcccctctag ctctttacac cctagcgggg cccctcaact cccaacccc	360
acttctctg cctgcccctc ctctctcttc cacgttgtct cctccaccta gcagttgggt	420
ggcaaccctt tcctcactca cccagagaaa tacatggagt ttgaccttaa tggaaatggc	480
gatattgggtg agaaacgggt gatttgcggg ggcagggtgg tgtgcaggcc taagaagaca	540
gaggctctct ctacatgctc cattctctcat gatttgggag ggggccacc taccacagt	600
ggaggaagga gaatggggat gcggaagtgg gagaggagag agagggtctc cccaccttct	660
ccccatcccc atcctctgcc cccagatata atgtccctga aacgaatgct ggagaaactt	720
ggagtcccca agactcacct agagctaaag aaattaattg gagagggtgtc cagtggctcc	780
ggggagacgt tcagctaccc tgactttctc aggatgatgc tgggcaagag atctgccatc	840
ctaaaaatgt gagtgtcaat ttccaacctc cctgtactt acctgttttc tcctccccc	900
tcctaccct tgtccacagg ctcaacattt ctacacgttg cccatcatcc cttcttccat	960
ccttagaggg acccttccaa ggtcccagacc ccatccctat ccatagtctt ggtccccaga	1020
aactccaacc cctgcccttc ctcttcccc ttccacctc acatccccat ccccttctag	1080
cctttcctag caccctatga tttattccct tgagaggagt gttccctgat ccctgtgcct	1140
cttcccatct caaccaggat cctgatgtat gaggaaaaag cgagagaaaa ggaaaagcca	1200
acaggccccc cagccaagaa agctatctct gagttgcctt gatttgaagg gaaaagggat	1260
gatgggattg aaggggcttc taatgaccca gatatggaaa cagaagacaa aattgtaagc	1320
cagagtcaac aaattaaata aattaccccc tcctccagat caa	1363

<210> 472
 <211> 1080
 <212> DNA
 <213> Homo sapiens

<400> 472
 caggcgcac acggcctgct ctagggctat aagttcccca tagatttttc tatacatgga 60
 ataggcctcc ttggagatgg cgttatttcc cagggtggcg cagatgaact tgatcatgga 120
 aaagctgttc acaaaggcaa gcctccctga ccgttcccag taggtgttga tgcacaggga 180
 caccaaaggc acgttcatga caaacttttc ctcaaaccg tggatcatag cctcgactac 240
 gtagaagaag gctggatagg cagtgtcata ggcagtatcc tgcacagtct caataacggc 300
 ctgatccacc acgtgggcca gagatgtggc ggtctcaaac tgctgcccc gggcctcttg 360
 gaatgcagct ggggccaggg gagtcggcag gttaccacc attagccggt gcacagccct 420
 gtgcctggcc ctctccccg catccctgcc aatgtaaata tcataaaggg ggtgcagctc 480
 cagccgcagc aggtcataat tggacgggtg gaggaagtct tcggtgggca gcccgcactt 540
 gagagctata tctgtcacgg gggctgcata cttgttatca tagaactcgt ccacaataac 600
 aagcacattc atgtgattgg gcctcctgtg ttgcaggag taggtctcgc gcctgtctcg 660
 cggggccggg gccgcgttga ggctgtttag ggtatggcg ggtgtgtgga gtcgggggtg 720
 acagagaacc ttgagagcat tctgtaggtt aaacgcgagg agaaggttat tcttgtttac 780
 gatccatgcc tccaccgga gctgctgtgt ggggttgtcc agcattttga tggcggcgga 840
 ggtcgtgtac ttgggattgg gcataaacag gccactggg aaatagtagc tgtactgcat 900
 tcttctgttg aggggggtatg gggactgagt gtcattgtac atcttttgca ggctttccac 960
 ggccaccgcg tggttgccca gcttgatgac ggcggctgag atcggcaccc ggggctgac 1020
 ctgacccct gcggccacag ccggcaggtc agacttggtg cttccggctt tttccggtga 1080

<210> 473
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 473
 ccctgaagg gaaccgctta ccacctctc ttcttgettg acgaggaccc ttctacggac 60
 tcgtctgggt tcttggcccc ctctggtagg actgggcgac cgggtgccttc ttaggagctg 120
 tccgagggga ccctctggcc cgataccggg gggcccgggc cgggttggtc cagggccttc 180
 acttcggtct cccct 195

<210> 474

<211> 223
 <212> DNA
 <213> Homo sapiens

<400> 474
 aacggaaagt ccgaatccta cacatttcta gtcgtgacgg ctagcttttt ggtggtcattg 60
 gcggtggtgg tcaacatata tctccagata caggagatga ggaaaaaaaa ggaggacaag 120
 tctaacggaa taatatccga tcatatatat ggagggatat cagggtcatca ttgtgtatca 180
 aaagatgatt tgtacaacag ggaaggatac ggtttttaaag gtt 223

<210> 475
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 475
 tcataaggta acgatgctac tttttttaat tccaagatgg tttttctttg ttagtctttt 60
 gttgacttgc tggttcctaa aagttcgcaa aaacgattgt gtgaagattt tatgacgttg 120
 gttgactagt tcatgagatt ctgctgtacg tgtgatgggt attcgctggg tcgttctaag 180
 atgagtatcg tactgtgtct gcgatgggctg tctcttactg gcattctctc ggctgcctct 240
 tgctttcat 249

<210> 476
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (62)..(62)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (137)..(137)
 <223> n is a, c, g, t or u

<400> 476
 cgagttctgc caggacatct ttctcggggg tctcgttgca atcctcgggc actngttcaa 60
 angttttgag ggattcttcg gccaaactctg gaaacagcgg gtctcccagn ctcagctgac 120

tggttaacctc ctctctnaac atagtctgca ggaacgtcgt ggccttggtc acgggtgtct 180

cgggc 185

<210> 477
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (34)..(35)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (50)..(50)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (103)..(103)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (110)..(110)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (116)..(116)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (122)..(122)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (134)..(135)
<223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (149)..(149)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (152)..(152)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (159)..(159)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (169)..(169)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (172)..(172)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (197)..(197)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (204)..(204)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (257)..(257)
 <223> n is a, c, g, t or u

<400> 477
 tctcatcagg ngagcantga ggcaagttct gnanngccgc catggcctgn ctgcagccat 60
 tgggtggtcctt aggggaaggct gagttcttgg taaagaactc tanattcctn tagcanatat 120
 anacatcctt tctnntaagt tcatecttnt tngcacggnc cttagcctnc antgcacccc 180
 cnaacttggt agcggcncccc ttgntcacat catgcagctc cttaatacaa gccatccaca 240
 tctcccgcctt atcctenggt acaatgtagt tctcatacat gctctgcata gttagcccaa 300

<210> 478
 <211> 363
 <212> DNA

<213> Homo sapiens

<400> 478

```

cttgacagcc cggcaggcag catccctgat attccttgcg gtatatgggtg tgatgtcgtg      60
tggaggcaac catggcggca cattgtcttc cgtgtctaaa agatggccgg acaaggcagc      120
ccgtcttctc cgccttcgcc tgatgcgctg catccagcct ctgttttcat caccctgct      180
ttgcccccaa ggttgctgat ctcttgagta tgactcttct ggtaccaatc tctcagaagc      240
cccactggat ggaggccccg gcccagggtc ctgatcatgc tcgccggtag tctgtacatt      300
atctccccgc tcattgtcgg gtgactgtct agagtcccc tgctcttcaa atgattccat      360
ggt                                          363

```

<210> 479

<211> 600

<212> DNA

<213> Homo sapiens

<400> 479

```

gagttagaaa tttaagagat cctcgtgtaa aacatctggg gtccggggga taatggagtc      60
aacatccagg cttgggcaca tctgcttcaa caggaggcgc agcctgtcat tttcagatga      120
tttggcagca gccacctcac ggtagtgctg cagcagttgc ttaaacttgg ccgggcattt      180
tctggaagcc acccgattct tgtatcgctt tatttctagt tcagaatcgc attcctccag      240
cgattctggc tgttgtgggt tccgtgtgcg tcgtgccggg gcagccactg gtgcaggctg      300
tggaacacca atgtctgcta gctgttgctc ttggttagcc ccggggcaag caaacaccac      360
tgctgctgct gtttgaacag tagaattgtc tccagggtga ggtgcttctc ccccggttg      420
gttagtctgt tgattctggg ttatgtcgga gactgggaac agctgagggtg ctgcataagc      480
ttgataagca ttctcaggag caggctgagg ggcagaaaac cacgacctag tcggagcggt      540
tgaaacatga taggcagtta gctggccttg tggcagaggc tctggcagca ccggccacag      600

```

<210> 480

<211> 146

<212> DNA

<213> Homo sapiens

<400> 480

```

ccctgaagggt gaaccgctta ccacctctc ttcttgctgg acgaggacct ttctacggac      60
tcgtctgggt tcttggcccc ctctggtagg actgggcgac cggtgccctc ttaggagctg      120
tccgagggga ccctctggcc cgatac                                          146

```

<210> 481

<211> 66

<212> DNA

<213> Homo sapiens

<400> 481

cctaggggag accgaagtga aggccctgga ccaaccggc ccgggcccc cggtatcggg 60

ccagag 66

<210> 482

<211> 176

<212> DNA

<213> Homo sapiens

<400> 482

cctctacagt caaacagatt aagggtcgag tggacatgct gcggcataga atcaaggagc 60

acatgctgaa aaaatatacc cagacggaag agaaattcac tggcgctttt aatatgatgg 120

gaggatgttt gcagaatgcc ttagatatct tagataaggt tcatgagcct ttcgag 176

<210> 483

<211> 185

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (54)..(54)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (62)..(62)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (110)..(110)

<223> n is a, c, g, t or u

<220>

<221> misc_feature

<222> (137)..(137)

<223> n is a, c, g, t or u

<400> 483

cgagttctgc caggacatct ttctcggggt tctcgttgca atcctcggtc actngttcaa 60

angttttgag ggattcttcg gccaaactctg gaaacagcgg gtctcccagn ctcagctgac 120

tgtaaacctc cttcctnaac atagtctgca ggaacgtcgt ggccttggtc acgggtgtct 180

cgggc 185

<210> 484

<211> 641

<212> DNA

<213> Homo sapiens

<400> 484

atttaaattc tgcagctcag agattcacac agaagtctgg acacaattca gaagagccac 60
 ccagaaggag acaacaatgt ccttgctacc cgtgccatac acagaggctg cctctttgtc 120
 tactggttct actgtgacaa tcaaagggcg accacttgcc tgtttcttga atgaaccata 180
 tctgcagggtg gatttccaca ctgagatgaa ggaggaatca gacattgtct tccatttcca 240
 agtgtgcttt ggtcgtcgtg tggatcatgaa cagccgtgag tatggggcct ggaagcagca 300
 ggtggaatcc aagaatatgc cctttcagga tggccaagaa tttgaactga gcatctcagt 360
 gctgccagat aagtaccagg taatgggtcaa tggccaatcc tcttacacct ttgaccatag 420
 aatcaagcct gaggtctgtga agatgggtgca agtgtggaga gatattctccc tgaccaaatt 480
 taatgtcagc tattttaaaga gataaccaga cttcatgttg ccaaggaatc cctgtctcta 540
 cgtgaacttg ggattccaaa gccagctaac agcatgatct tttctcactt caatccttac 600
 tcctgctcat taaaacttaa tcaaacttca aaaaaaaaaa a 641

<210> 485

<211> 2165

<212> DNA

<213> Homo sapiens

<400> 485

tgcgccgcgg ctgctgctgc gcaggccag tgctgcgctt cgcggcagag gcgtctgcgg 60
 tgacagctca gtcagttgag ctctgtgtgc caggcgctcg ggagggggta gctcttctag 120
 tagtgctcgg cgtcagacat ggcggaggcg atggatttgg gcaaagaccc caacggggccc 180
 acccattcct cgactctgtt cgtgaggagac gacggcagct ccatgtcctt ctacgtgcgg 240
 cccagcccgg ccaagcgtcg gctgtcgacg ctcatcctgc acggcggcgg caccgtgtgc 300
 cgagtgcagg agcccggggc cgtgctgctg gccagcccg gggaggcgct ggccgaggcc 360
 tcgggtgatt tcatctccac gcagcacatc ctggactgcg tggagcgcaa cgagaggctg 420
 gagctggagg cctatcggct gggccccgcc tcggcggcgg acaccggctc ggaagcaaag 480
 cccggggccc tggccgaggg cgccgcggag cggagccgc agcggcacgc cgggcggatc 540
 gccttcacgg atgcggacga cgtagccatc cttacctacg tgaaggaaaa tgcccgtcg 600
 cccagctccg tcacaggtaa cgccttgtgg aaagcgatgg agaagagctc gctcacgcag 660
 cactcgtggc agtccctgaa ggaccgctac ctcaagcacc tgcggggcca ggagcataag 720
 tacctgctgg gggacgcgcc ggtgagcccc tcctcccaga agctcaagcg gaaggcggag 780
 gaggaccggg aggccgcgga tagcggggaa ccacagaata agagaactcc agatttgcct 840
 gaagaagagt atgtgaagga agaaatccag gagaatgaag aagcagtcaa aaagatgctt 900

gtggaagcca cccgggagtt tgaggaggtt gtggtggatg agagccctcc tgattttgaa 960
 atacatataa ctatgtgtga tgatgatcca cccacacctg aggaagactc agaaacacag 1020
 cctgatgagg agtaagaaga agaagaagaa aaagtttctc aaccagaggt gggagctgcc 1080
 attaagatca ttcggcagtt aatggagaag tttaacttgg atctatcaac agttacacag 1140
 gccttcctaa aaaatagtgg tgagctggag gctacttccg ccttcttagc gtctggtcag 1200
 agagctgatg gatatcccat ttggtcccg caagatgaca tagatttgca aaaagatgat 1260
 gaggatacca gagaggcatt ggtcaaaaaa tttggtgctc agaatgtagc tcggaggatt 1320
 gaatttcgaa agaaataatt ggcaagataa tgagaaaaga aaaaagtcac ggtaggtgag 1380
 gtggttaaaa aaaattgtga ccaatgaact ttagagagtt cttgcattgg aactggcact 1440
 tattttctga ccatcgctgc tgttgctctg taagtcctag atttttgtag ccaagcagag 1500
 ttgtagaggg ggataaaaag aaaagaaatt ggatgtatth acagctgtcc ttgaacaagt 1560
 atcaatgtgt ttatgaaagg aagatctaaa tcagacagga gttggtctac atagtagtga 1620
 tccattgttg gaatggaacc cttgctatag tagtgacaaa gtgaaaggaa atttaggagg 1680
 cataggccat ttcaggcagc ataagtaatc tcctgtcctt tggcagaagc tcctttagat 1740
 tgggatagat tccaaataaa gaatctagaa ataggagaag atttaattat gaggccttga 1800
 acacggatta tccccaaacc cttgtcattt cccccagtga gctctgattt ctagactgct 1860
 ttgaaaatgc tgtattcatt ttgctaactt agtatthggg taccctgctc tttggctgtt 1920
 ctttttttgg agcccttctc agtcaagtct gccggatgtc tttctttacc taccctcag 1980
 ttttccttaa aacgcgcaca caactctaga gagtggttaag aataatgtta cttggttaat 2040
 gtgttatthta ttgagtattg tttgtgctaa gcattgtgtt agattthaaaa aattagtggg 2100
 ttgactccac tttgttgtgt tgttttcatt gttgaaaata aatataactt tgtattcgaa 2160
 aaaaa 2165

<210> 486
 <211> 1098
 <212> DNA
 <213> Homo sapiens

<400> 486
 atggcgtca tggcgccccg aaccctctc ctgtactct cgggggccct ggccctgacc 60
 cagacctggg cgggctccca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300

gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
 ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480
 gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgaggc ggagcagttg 540
 agagcctacc tggatggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
 gagacgctgc agcgcacgga ccccccaag acacatatga cccaccaccc catctctgac 660
 catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
 ggggatggaa ccttccagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggagctg 900
 tcttcccagc ccaccatccc catcgtgggc atcattgctg gcctggttct ccttggagct 960
 gtgatcactg gagctgtggt cgctgccgtg atgtggagga ggaagagctc agatagaaaa 1020
 ggagggagtt acactcaggc tgcaagcagt gacagtgcc agggctctga tgtgtccctc 1080
 acagcttgta aagtgtga 1098

<210> 487
 <211> 242
 <212> DNA
 <213> Homo sapiens

<400> 487
 tttttttttt tttttctgat tctatgcttg tgcatgaccc tgatgagtag taaatcaatt 60
 caacaagaag gttgaattgt taccagtaa ctttcattct tcttagggta tgaaaattgg 120
 ccactgaatg ttctgttcca aaattcccta agcaagttaa gctaaatata tggattaaaa 180
 gatttatttt gattttaaaa tggacactac atatctggct tatttagtct gccctcgtgc 240
 cg 242

<210> 488
 <211> 3415
 <212> DNA
 <213> Homo sapiens

<400> 488
 cccctcccc tctgcagcc tctgcgccc cgccgagctg gcggatggag ctgcgcagcg 60
 ggagcgtggg cagccaggcg gtggcgcgga ggatggatgg ggacagccga gatggcgggc 120
 gcggcaagga cgccaccggg tcggaggact acgagaacct gccgactagc gcctccgtgt 180
 ccaccacat gacagcagga gcgatggccg ggatcctgga gcactcggtc atgtaccggg 240
 tggactcggg gaagacacga atgcagagtt tgagtccaga tcccaaagcc cagtacacaa 300

gtatctacgg agccctcaag aaaatcatgc ggaccgaagg cttctggagg cccttgcgag	360
gcgtcaacgt catgatcatg ggtgcagggc cagcccatgc catgtatttt gcctgctatg	420
aaaacatgaa aaggacttta aatgacgttt tccaccacca aggaaacagc cacctagcca	480
acggtatttt gaaagcgttt gtctggagtt agaaagttct cttcttcaac acgtccctcc	540
ccagggtgtt cctccctgtg acccagccgc ctcgacttcg gcccgcttgc tcacgaataa	600
agaactcaga gttgtgtgtg caatgcacac ccagacacac gcacgcacac acacgcgcgc	660
gcacacacat gctttttttc tgttccccctc cgctttctga agcctgggga gaaatcagtg	720
acagaggcgc tctctgggtt ttattgttat gtgggttttc ttttgtattt tttttgtttg	780
ttttgttttt aaacattcaa aagcaattaa tgatcagaca taggagaaac cctgaataga	840
aacaaaactt ttgaatgctg gattcaaaaa agaaaaaaag ttatctggac agcttctttg	900
agactattta aaaactggta caacaggtct ctacaacgcc aagatctaac taagctttta	960
aaggtaaga agttttatgg ctgacaaagg actcgcgcaa cgcagaaggc ctttcccacc	1020
ttaagcttcc ggggatctgg gaattttacc cccattctct tctgtttgtc tgagtctcat	1080
ctctctgcaa gcaagggctg aaatcatttt gtttggttgt tttgaggag agaggcgggg	1140
tgggggggtg caaatctgcc agcagctctt acgtaaggca tgttttattg gggagggctg	1200
agcttttatt ttctcctctc cagtgggggt ggcttttatt gtttcttggt tgggtttgga	1260
atggaaatat ggatagcagc ataaagtact tttattttga caaaattcat ttttttcaac	1320
aatggagaca tagatttgac ccacaataac ttctccccct ctctttttac tctgctcaaa	1380
aagcatctct cctcccatTA cccaacctg gtcataagtg tgcttggtg gtttgcagat	1440
atttgttctg ctttgtaaaa attggccatt agtgcattta ttgagatgat ctctaaagag	1500
ctatgccctg acctaccctt gattctatga cattgggggc cttcttttgc tgaaactgcc	1560
ttacgtaatg gttttactcc ttgaaagaga tttgacggaa tccattttat gccaagtgct	1620
gccctgcact gtttctgcaa tatgtggtgt atgctgtggt gatcttgctg ggaatgatta	1680
taagtgtgtg tgtgatgggg gagtgggtat tacatgcatt gctgaagagt catcctggtg	1740
ttcctcatte ctcccacctt cccgtgggtc ttttaattac ggggcagtgt caccgcaaag	1800
ggaggaaaact caaagccgaa agcaaaattc caggcctgat tctggctttt gaggttcctg	1860
gttcttgaag ccaggcctga cccgactctc agatgggggtc agtcccgctc ctttgcagac	1920
tgacctgga aatctacaaa atgcagattt tcttgatttc ctcttctctt gccagtttt	1980
tttttttttt tttttttttt tttttaagc ctggattgta accagatttt cttttttccc	2040
ccttctcagc tgtagatatg atatctcctt tcagggcccc agcttaaggg caaagtgagt	2100

```

taatgtgtag acaaaggcga gggacaagag agagttaaca tctagacagt ggaaaaagcc 2160
atggtgtgtg gtttctggga accaccaaca cttgcagggt tagctttttc ccagggttga 2220
ctacaagaaa gaaaaccatg tttttgcaag attaaaatgt ggttgagtgt gcctaaatta 2280
accatcccca tttttatcat atttccacca tcacttcagg gttttaagag tcagtgtctca 2340
cctgggcgga gctggtagta cattttgctt cttagaaagc taagtccctgg gttccgtctg 2400
attttagggt ccaggaactt cctgagaaca cccgatcgca gagggtaatt ttctggagtt 2460
tgttttgcag ggatagctgg gagtatggcc accctgctcc acgatgcggt aatgaatcca 2520
gcagaagtgg tgaagcagcg cttgcagatg tacaactcgc agcaccggtc agcaatcagc 2580
tgcacccgga cgggtgtggag gaccgagggg ttgggggcct tctaccggag ctacaccacg 2640
cagctgacca tgaacatccc cttccagtcc atccacttca tcacctatga gttcctgcag 2700
gagcagggtca acccccaccg gacctacaac ccgcagtccc acatcatctc aggcgggctg 2760
gccggggccc tcgccgcggc cgccacgacc cccctggacg tctgtaagac ccttctgaac 2820
actcaggaga acgtggccct ctcgctggcc aacatcagcg gccggctgtc gggatatggc 2880
aatgccttcc ggacggtgta ccagctcaac ggcctggccg gctacttcaa aggcattccag 2940
gcgcgtgtca tctaccagat gccctccacc gccatttctt ggtctgtcta tgagttcttc 3000
aagtactttc tcaccaagcg ccagctggaa aatcgagctc cataactaaag gaagggatca 3060
tagaatcttt tcttaaagtc attctctgcc tgcattccagc cccttgccct ctctcacac 3120
gtagatcatt tttttttttg caggggtgctg cctatgggccc ctctgctccc caatgcctta 3180
gagagaggag gggacggcac ggccgctcac cggaaggctg tgtgcgggga catccgaggt 3240
ggtaggtggac aggaaggact tgggaagggg agcgagaaat tgctttttct cttcctccct 3300
gggcagaatg tagcttttct gcttactgt ggcagcctcc tccctggatc cttagatccc 3360
agaggaggga agaaaatttg cagtgactga aaacagtaaa aaaaaaaaaa aaaaa 3415

```

<210> 489

<211> 2473

<212> DNA

<213> Homo sapiens

<400> 489

```

aatcgcgaaa cccggcgagc ggcgcgctgg ctatcgagcg agcggggcgg aaccgggagt 60
tgcgccgccc ctcgggcgcc gggctccgtc gcggccgcag ccccgcggt cgccctccc 120
tgctcgccc gcggacaccc tggcgtgga caccctggcc gtgggcaccc gcggggcgcg 180
gcgcgggcgc tgcgcggcgg cggcggcggc atgaaggctc cgctcgctcga cgggcgccag 240
ctgcgcaaga tgctccgcaa ggaggcgggc gcgcgctgcg tgggtgctcga ctgccggccc 300

```

tatctggcct	tcgctgcctc	gaacgtgcgc	ggctcgctca	acgtcaacct	caactcgggtg	360
gtgctgcggc	gggcccgggg	cggcgcgggtg	tcggcgcgct	acgtgctgcc	cgacgaggcg	420
gcgcgcgcgc	ggctcctgca	ggagggcggc	ggcggcgctcg	cggccgtgggt	gggtgctggac	480
cagggcagcc	gccactggca	gaagctgcga	gaggagagcg	ccgcgcgtgt	cgtcctcacc	540
tcgctactcg	cttgccctacc	cgccggccccg	cgggtctact	tcctcaaagg	gggatatgag	600
actttctact	cggaatatcc	tgagtgttgc	gtggatgtaa	aaccatttc	acaagagaag	660
attgagagtg	agagagccct	catcagccag	tgtggaaaac	cagtggtaaa	tgtcagctac	720
aggccagctt	atgaccaggg	tggcccagtt	gaaatccttc	ccttcctcta	ccttggaaagt	780
gcctaccatg	catccaagtg	cgagttcctc	gccaacttgc	acatcacagc	cctgctgaat	840
gtctcccgac	ggacctccga	ggcctgcatg	accacacctac	actacaaatg	gatccctgtg	900
gaagacagcc	acacggctga	cattagctcc	cactttcaag	aagcaataga	cttcattgac	960
tgtgtcaggg	aaaagggagg	caaggtcctg	gtccactgtg	aggctgggat	ctcccgttca	1020
cccaccatct	gcatggctta	ccttatgaag	accaagcagt	tcgcctgaa	ggaggccttc	1080
gattacatca	agcagaggag	gagcatggtc	tcgcccact	ttggcttcat	gggccagctc	1140
ctgcagtacg	aatctgagat	cctgccctcc	acgcccacc	cccagcctcc	ctcctgccaa	1200
ggggaggcag	caggctcttc	actgataggc	catttgca	cactgagccc	tgacatgcag	1260
gggtgcctact	gcacattccc	tgccctcgggtg	ctggcaccgg	tgcctaccca	ctcaacagtc	1320
tcagagctca	gcagaagccc	tgtggcaacg	gccacatcct	gctaaaactg	ggatggagga	1380
atcgccccag	ccccaaagagc	aactgtgatt	tttgttttta	agactcatgg	acatttcata	1440
cctgtgcaat	actgaagacc	tcattctgtc	atgctgcccc	agtgagatag	tgagtgggtca	1500
ccaggcttgc	aaatgaactt	cagacggacc	tcagggtagg	ttctcgggac	tgaaggaagg	1560
ccaagccatt	acgggagcac	agcatgtgct	gactactgta	cttcagacc	cctgccctct	1620
tgggactgcc	cagtccttgc	acctcagagt	tcgccttttc	atttcaagca	taagccaata	1680
aatacctgca	gcaacgtggg	agaaagaagt	tgctggacca	ggagaaaagg	cagttatgaa	1740
gccaattcat	tttgaaggaa	gcacaatttc	cacctatttt	tttgaacttt	ggcagtttca	1800
atgtctgtct	ctgttgcttc	ggggcataag	ctgatcaccg	tctagttggg	aaagtcaccc	1860
tacagggttt	gtagggacat	gatcagcatc	ctgatttgaa	ccctgaaatg	ttgtgtagac	1920
accctcttgg	gtccaatgag	gtagttgggt	gaagtagcaa	gatgttggct	tttctggatt	1980
ttttttgcc	tgggttcttc	actgaccttg	gactttggca	tgattcttag	tcatacttga	2040
acttgtctca	ttccacctct	tctcagagca	actcttcctt	tgggaaaaga	gttcttcaga	2100
tcatagacca	aaaaagtc	accttcgagg	tggtagcagt	agattccagg	aggagaaggg	2160

tacttgctag gtatcctggg tcagtggcgg tgcaaactgg tttcctcagc tgccctgtcct	2220
tctgtgtgct tatgtctctt gtgacaattg ttttcctccc tgcccctgga gggtgtcttc	2280
aactgtggac ttctgggatt tgcagatttt gcaacgtggg actacttttt tttctttttg	2340
tctgttagtt atttctccag gggaaaaggc aataattttc taagaccogt gtgaatgtga	2400
agaaaagcag tatgttactg gttgttggtg ttgttcttgt tttttatatg taaaataaaa	2460
atagtgaag gag	2473

<210> 490
 <211> 1216
 <212> DNA
 <213> Homo sapiens

<400> 490	
gggtgttcact caacttggat ctgtgctgaa aaattgtgac atttcagtag atctggtaga	60
gggtacagct tttatcttgc acatgaattt tttgatgttc ttctgtgca taaatttcag	120
aaaacaccac agggatggcg agaagtattt gttgacattg atccacagggt ttctgataaa	180
ctgagggtttg ttttggcacc ttctgccacc ccagcagaag ccttcataca acatgacgaa	240
acaagggatc atgttgaagt gtgtcctgat gctgggtgta tcatcgagga actttctcaa	300
cgcattgcat taactggagg tgctgcactg gttgctgatt atggatcatga tggaacaaag	360
acagatacct tcagaggggt ttgcgaccac aagcttcatg atgtcttaat tgccccagga	420
acagcagatc taacagctga tgtggacttc agttatttgc gaagaatggc acagggaaaa	480
gtagcctctc tgggccaat aaaacaacac acatttttaa aaaatatggg tattgatgtc	540
cggctgaagg ttctttttaga taaatcaaag gagccatcag tgaggcagca gttacttcaa	600
ggatatgata tggtaatgaa tccaaagaag atgggagaga gatttaactt ttttgccttg	660
ctacctcatc agagacttca aggtggaaga tatcagagga atgcacgtca gtcaaaaccc	720
tttgcacccg ttgtagctgg gtttagtgaa cttgcttggc agtgatatat cagcttggac	780
attttaccct tcagtcggcc caagaaatca aaataaagga aacacatttc atatactgca	840
ggtaacaaaa gtcaaagtat tttatctttt cacagcaaga acagtccatg ttgtatataa	900
tacaaccaac attatagaac ttttaggggt gtgactggct ttgggtgcaa tgtgtgctca	960
agctaataag ttattgtgaa actgagtttc ctttaactta caaagctagt tgccatattt	1020
ctattttatt ttaaaaagta aacatgcggc tgggcgtggg ggctcatgcc tgtaatccca	1080
gcactttggg aggctgagggt gggcatatca cctgagggtca gcagttaaag accagcctga	1140
ccaaaatgga gaaaccccat ctctactaaa aatacaaaac tagccgggta tgggtgtaca	1200
tgccgtgtaat cccagc	1216

<210> 491
 <211> 5590
 <212> DNA
 <213> Homo sapiens

<400> 491
 ttttaccacg atgtaaacia acaaacaana aactctcggc attgccccca ctccctggca 60
 gtgtctattg tgggaggaga gaccgaaatt ctccaggacac acccaggcct caagacttct 120
 cgcccaatcc gtcaccactt cctggcgag acatcggact gttaaggccc ctccacttcc 180
 cgctcaggtt acagacccca gggcacatcc ccccatcctc acccgctgc atgaccaggc 240
 tgccccctgc cccgcacacc tctctctgag tagcctcctg tcttcctctt ggcagctgag 300
 tcagcttcac cacctcactg ggtctggaac agccaactcc tgacactttc aactcacag 360
 aggtggagca ggggcacggg ggctgggcac caccagtgtg tgggcagcac ccaggcatta 420
 aacacagcag aggatggcgc aggcacccct gttctcctcc cagagccaag cttcaggcca 480
 tgtccagcgg gggaggctgt gagtcacctc tgcctcatgt gggatgatcat aggaggggtgt 540
 gagtcagctc tgtccacatg gttgctcatg ggagggtatg agtcagctct gtcaatgtgg 600
 gtgggtgggtg gtcacgggag ggtgtgagtc agctctgtcc acgtgggtgc tcataggagg 660
 ttgtgagtc gctctgtcca tgtgggggtgc tcacaggagg gtgtgtgtca gctctgtctg 720
 tgtgggtgggt cacgggaggg tgtgagtcag ctctgtctgt ggggtggtcac aggaggggtgt 780
 gagtcagctc tgtctgagtg ggtggtcacg ggagggtgtg tgcagctct gtctgtgtgg 840
 gtggtcacgg gaggggtgtgt gtcagctctg tccgtgtggg tgctcacggg aggggtgtgag 900
 tcagctctgt ctgtgtgggt ggtcacagga ggggtgtgtgt cagctctgtc tgtgtgggtg 960
 ctccagggag ggtgtgagtc agctctgtct gtgtgggtgg tcacagaagg gtgtgtgtca 1020
 gctctgtgtg ggtgtcacg ggagggtgtg agtcagctct gtctgtgtgg gtggtcacag 1080
 gaggggtgtgt gtcagctctg tctgtgtggg tggtcacggg aggggtgtgag tcagctctgt 1140
 ctgtgtgggt ggtcacagga ggggtgtgag cagctctgtc tgtgtgggtg gtcacaggag 1200
 ggtgtgagtc agctctgtcc atgtgggtgc tcacgggagg ttgtgagtc gctctgtctg 1260
 tgtgggtgggt cacaggaggg tgtgagtcac ctctgcctgt ggggtggtcac gggaggggtgt 1320
 gagtcagctc tgtctgtgtg ggtggtcaca ggagggtgtg agtcagctct ggggtggtcac 1380
 gggaggggtgt gagtcagctc tgtctgtgtg ggtggtcacg ggagggtgtg agtcagctct 1440
 gtctgtgtgg gtgctcacgg gaggggtgtg gtcagctctg tctgtgtggg tgctcacagg 1500
 aggggtgtgag tcagctctgt ctgtgtgggt ggtcacggga ggggtgtgag cagctttgtc 1560
 tgtgtgggtg ctccaggag ggtgtgagtc agttctgtgt ggggtggtcac aggaggggtgt 1620

gagtcagctc	tgtgtgggtg	gtcacgggag	ggtgtgagtc	agctctgtct	gtgtgggtgc	1680
tcacaggagg	gtgtgagtca	gctctgtctg	tgtgggtggt	cacgggaggg	tgtgtgtcag	1740
ctttgtctgt	gtgggtgctc	acaggagggg	gtgagtcagc	tctgtccgtg	tgggtgctca	1800
caggaggggtg	tgagtcagct	ctgtgtgggt	tgtcacggga	gggtgtgagt	cagctctgtc	1860
tgtgtgggtg	gtcacaggag	ggtgtgagtc	agctctgtct	ctgtgggtgg	tcacaggcgg	1920
gtgtgagtca	gctctgtctc	tggggtgggtc	acaggcgggt	gtgagtcagc	tctgtctctg	1980
tgggtgggtca	ccggcggggtg	tgagtcagct	ctgtccgtgt	gggtgctcac	aggaggggtgt	2040
gtgtcagctc	tgtctctgtg	ggtggtcaca	gtagcgtgtg	agtcagctct	gtctgtgtgg	2100
gtggtcacgg	gagcgtgtga	gtcagctctg	tctgtgtggg	tgctcacagg	agggtgtgag	2160
tcagctctgt	gtgtgtgggt	ggtcacagga	gagtgtagt	cagctctgtg	tgtgtgggtg	2220
gtcacaggag	ggtgtgagtc	agctctgtct	ctgtgggtgg	tcacgggagg	gtgtgagtca	2280
gctgtacgtc	atgtagttgg	tcactctgtg	gttccacctg	catcctgggg	tagcctgttg	2340
gccatttttg	ttgccactat	aaagccctga	gtgtggctag	gaaggggggtg	ctgggtggga	2400
ccgtatgatc	acgtgtgctc	agtttggcat	gtgtgatcgt	catgtgactg	ggctcacaga	2460
aaggagcttg	tccctaata	tttccaacct	tggactgtg	tcttgacctg	gcctgtagtc	2520
ctgctgtctg	ggtttgcatt	gccccgagag	cccttctgaa	caaaggatgc	tgatggattc	2580
aagccagctt	ggtgggtgcc	gggccctccc	tcccacctcc	tttagtcttt	atgttgacct	2640
tgagctgggg	tggtcctggg	accccagagt	tctgtagcgg	aagggtctgc	aggagggcac	2700
acagcagggg	agctggggaga	gggggcttgt	ttgcctcagc	attgggggag	ccgaggaaac	2760
gttcatgaaa	gcttctgaaa	gggaagcagg	aaggattttc	accccagggc	tgcagcttca	2820
gggactacat	gaggggtatg	gtggggatga	ggggaaggcc	cacaggggtg	tattcccatc	2880
tcactgtcct	cctctggctt	tgctttgtgt	tgcgaacctg	catcctgagg	ctgacttcag	2940
aatgttaaga	aaggcagccc	tgagcctttg	atcaccccag	gagttccaga	aggcaccagg	3000
gagtcctctc	gggtcccatg	cccctcccag	ccccttgggg	tcacctgat	cggcctggcc	3060
aaggtcgcca	gctgcctggg	gactggggag	cagccacatg	ccctctgcag	gggagtagtt	3120
gccaggaagg	tgacggcgga	ggccctgctc	tccatcacag	cggtcctgat	tatgagatcg	3180
tcactctcaa	gaggccaaaa	gttatgacca	aacttcaaga	gaaactccca	gtaaagtagt	3240
atctccacag	cagacagttg	ggatgcaggt	ccaccacag	ccagctctga	gctgacacag	3300
gggccctggc	cagggttcca	ccctgctctg	cctgcctggg	gccctggcta	gcctgcagat	3360
aacatcaagt	agtttcgtaa	tttccacaca	cagcacttcc	agagcctcat	aatcaaccat	3420

ctataaagtc tcaagaagcc atgttgcttc ctcattggcac ctgctttcct tcctctgtgg	3480
tcctcgggcag ggtcagagag agggccattt agttgagaat ggaagggagg ggccgctggc	3540
ttctcactcc tcaggaaggc gcccttgctg ctgccccttg agctgggagt gtccggcact	3600
gtgggtctcag cacgttccag gcccccccg cccctgtgtt ctctgctggg cctccccctc	3660
ccgaggggac taggggaggc agctgggatc tgcccagagc ttgggtcctca cctcctgttt	3720
cctgggctcc ccagcctgtc agacccttgc tggctctttg ctatgaccac acagttggat	3780
ggaggcttct ccaaggaaaa ggcagagacc aggggccagc aactccccctg cggtgaaca	3840
tggaaactctc aggccaagag gagccctggg gtgagcaaca gccctgtggc cttgctttcg	3900
ggttcagggtg gtgcagggag ccaccccgga cctccgtgaa ggccagtga atggacagga	3960
caaggtgctt ggcctgcggc tggagagccc atcttcttac cccctggcca catggttctg	4020
ggaaggcact gacgctttgt aaaacttgcc tgggtgtgaa aatgatggcg gtcatatgta	4080
gtaccttaga aggctgtgct gggagttaac gatataacat agcgcaaatg cctgaccctt	4140
gggagagggg cagtgagagt ttgttgaagt tggcatgtga agtcgaggct ctcaagtagg	4200
tgcagacttt tcctgtccag gaatgggaga caaggagctg tcattcactc aagcccttcg	4260
tctgccagcc cctggcctgt tatacacccc ttttcaatcc tgtaaggtaa gtgttcttat	4320
ctccaacttc caggtgggaa gtctgaagct cagagagcct gggccaatgg tacaggtcac	4380
acagcacatc agtggctaca tgtgagctca gacctgggtc tgctgctgtc tgtcttccca	4440
atatccatga ccttgactga tgcaggtgtc tagggatacg tccatccccg tcctgctgga	4500
gccagagca cggaagcctg gccctccgag gagacagaag ggagtgtcgg acaccatgac	4560
gagagcttgc cacgaaatat gcagcttctt tccctgaga aaatggcaaa gaaaattcaa	4620
cacagaaggc cagggagggt gtgtggaaac gattcacatg ttcaaaaagat ttatatgtgt	4680
agaagaaagc tgtgaagtgt gaagtatatt ttctattgta gaatggatga aaatggaata	4740
aaaataatat cctttgctag gcagaataaa taacttcttt aaacaatttt acggcatgaa	4800
gaaatctgga ccagtttatt aaatgggatt tctgccacaa accttggaag aatcacatca	4860
tcttagccca aggtgaaaac tgtgttgctg aacaaagaac atgactgctc tccacacata	4920
catcattgcc cggcgaggcg ggacacaagt caacgacgga acacttgaga caggcctaca	4980
actgtgcacg gttcagaagc aggtttaagc catacttgct gcagtgagac tacatttctg	5040
tctaaagaag atgtgagtc taagcagact taaagccaag aaaataagaa gaggaaagag	5100
agagggcctg ccttaaccac ctgtgggtgct gacttggaca attccaggtc aagaggaact	5160
gtctactttc gactttgtgt gatagtaact ttttaagcag tggaccggga gcccaagact	5220
cagatgcagc aagctttgca aggctgacga gagctgagat cttcagtggc cgatgggtac	5280

agggctgctg ggagcgtagc cacgtctgct ccaaggtggc ttgaatgagg cagtgcctcaa 5340
 gtccttttga ctggctgagg tgagcctgtg gtcagtcac actttgtccc tctcgtaata 5400
 agtgcatttc ccagacagca gtccttggt gtcatgcaac tgaggaacct aattgtctgg 5460
 gtgggttggt cccatccaac ttccacctgt cacgaagggt gctttttcag atcagctctcc 5520
 acagctacca tcttgctggg cacagagccg ggcacccaac agtgtatgtt gaataaagaa 5580
 tgaattgatg 5590

<210> 492
 <211> 2057
 <212> DNA
 <213> Homo sapiens

<400> 492
 ccgtgcagcc cgagatgggc tcgtctcggt caccctggat ggggcgtgtg ggtgggcacg 60
 ggatgatggc actgctgctg gctgggtctcc tcctgccagg gaccttggtt aagagcattg 120
 gcaccttctc agaccctgt aaggaccca cgcgtatcac ctcccctaac gaccctgcc 180
 tcaactggga gggtagctcc agcggcttca gtagctacag tggctccagc agttctggca 240
 gctccatttc cagtgcagca agctctgggt gtggctccag tggtagctcc agcggatcca 300
 gcattgcca gggtaggttct gcaggatctt ttaagccagg aacgggggtat tcccagggtca 360
 gctactcctc cggatctggc tctagtctac aagggtgcac cggttcctcc cagctgggga 420
 gcagcagctc tcaactggga agcagcggct ctcaactcgg aagcagcagc tctcattcga 480
 gcagcagcag cagctttcag ttcagcagca gcagcttcca agtagggaat ggctctgctc 540
 tgccaaccaa tgacaactct taccgaggaa tactaaacct ttcccagcct ggacaaagct 600
 cttcctcttc ccaaacctct ggggtatcca gcagtggcca aagcgtcagc tccaaccagc 660
 gtccctgtag ttcggacatc cccgactctc cctgcagtgg agggcccatc gtctcgact 720
 ctggccccta catccccagc tcccactctg tgtcaggggg tcagaggcct gtggtgggtg 780
 tgggtggacca gcacgggttct ggtgcccctg gagtgggttca aggtcccccc tgtagcaatg 840
 gtggccttcc aggaagccc tgtcccccac tcacctctgt agacaaatcc tatgggtggct 900
 acgaggtggg ggggtggctcc tctgacagtt atctgggtcc aggcattgacc tacagtaagg 960
 gtaaaatcta tcctgtgggc tacttcacca aagagaacct tgtgaaaggc tctccagggg 1020
 tcccttctt tgcagctggg cccccatct ctgagggcaa atacttctcc agcaacccca 1080
 tcatccccag ccagtcggca gcttcctcgg ccattgcgtt ccagccagtg gggactgggtg 1140
 ggggtccagct ctgtggaggc ggctccacgg gctccaaggg accctgctct ccctccagtt 1200
 ctgagtcctc cagcagttct agcatttcca gcagctccgg ttcacctac catccctgcg 1260

```

gcagtgtctc ccagagcccc tgctccccac caggcaccgg ctcttcagc agcagctcca 1320
gttcccaatc gagtggcaaa atcatccttc agccttgtgg cagcaagtcc agctcttctg 1380
gtcacccttg catgtctgtc tctccttga cactgactgg gggccccgat ggctctcccc 1440
atcctgatcc ctccgctggg gccaaagccct gtggctccag cagtgtctgga aagatccctt 1500
gccgctccat ccgggatatc ctagcccaag tgaagcctct ggggccccag ctagctgacc 1560
ctgaagtttt cctaccccaa ggagagttac tcgacagtcc ataagtcaac tgttgtgtgt 1620
gtgcatgcct tgggcacaaa caagcacata cactatatcc catatgggag aaggccagtg 1680
cccaggcata gggttagctc agtttccctc cttccccaaa gagtgggttct gctttctcta 1740
ctaccctaag gttgcagact ctctcttate accccttctt ccttctctt ctcaaaatgg 1800
tagattcaaa gctcctctct tgattctctc ctactgttta aattcccatt ccaccacagt 1860
gcccctcagc cagatcacca ccccttacia ttccctctac tgtgttgaaa tgggtccattg 1920
agtaacaccc ccatcacctt ctcaactggg aaaccctga aatgctctca gagcacctct 1980
gacgctgaa gaagttatac cttctcttcc ccttttacca aataaagcaa agtcaaacca 2040
tcaaaaaaaaa aaaaaaa 2057

```

```

<210> 493
<211> 629
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (605)..(605)
<223> n is a, c, g, t or u

```

```

<400> 493
acaaatagga caaagaaagt aagaagataa atgatgactt ttatttgcca acatttggtt 60
cagcacaact ttctaccct gtctctcccc acctttgccc ttaggctaag gagcagaaaa 120
gtgatttgtc aagatggagc aaggatttta ccagtctaaa acctaattgct gtaaaactaa 180
atgagacaac ttggggcttg aatgggtgct gggctgtagg tactgctggg tcaactgttg 240
tataaatggg cactggagca gattaataaa tcaaggatca gtttcaccca catttaaagg 300
actacttgac tcatttctgt ctcgagtaaa tggactttgg tagtagcaac gccataccgt 360
gatgatatca tttgtgttg gaatcaaact gggcaatgca agagtgtttt tgaagcctaa 420
atctatgtaa gacttatcag tttgggagag gataataata aaagtaacaa tcaatgcttc 480
caaactccaa ttgactgtct tttttagctt ttatatttac ctagttgtta tgctaaccaa 540
ttcagctttt tactgttgct gttgtgttg ttttaagaaa taaaatttct gattgctgtt 600

```

ttcanaaaaa aaaaaaaaaa aaaggacgc

629

<210> 494

<211> 514

<212> DNA

<213> Homo sapiens

<400> 494

cttccttttt gtccgacatc ttgacgaggc tgcggtgtct gctgctattc tccgagcttc 60

gcaatgccgc ctaaggacga caagaagaag aaggacgctg gaaagtcggc caagaaagac 120

aaagaccag tgaacaaatc cgggggcaag gccaaaaaga agaagtggc caaaggcaaa 180

gttcgggaca agctcaataa cttagtcttg tttgacaaag ctacctatga taaactctgt 240

aaggaagttc ccaactataa acttataacc ccagctgtgg tctctgagag actgaagatt 300

cgaggtccc tggccagggc agcccttcag gagctcctta gtaaaggact tatcaaactg 360

gtttcaaagc acagagctca agtaatttac accagaaata ccaaggggtg agatgctcca 420

gctgctggg aagatgcatg aataggtcca accagctgta catttgga aaataaaactt 480

tattaaatca aaaaaaaaaa aaaaaaaaaa aaaa 514

<210> 495

<211> 1283

<212> DNA

<213> Homo sapiens

<400> 495

ctctctgtc ctctgttcg acagtcagcc gcattctctt ttgcgtcgcc agccgagcca 60

catcgctcag acaccatggg gaaggtgaag gtcggagtca acggatttgg tcgtattggg 120

cgctgtgtca ccagggtgc ttttaactct ggtaaagtgg atattgttgc catcaatgac 180

cccttcattg acctcaacta catggtttac atgttccaat atgattccac ccatggcaaa 240

ttccatggca ccgtcaaggc tgagaacggg aagcttgtca tcaatggaaa tcccatcacc 300

atcttccagg agcgagatcc ctccaaaatc aagtggggcg atgctggcgc tgagtacgtc 360

gtggagtcca ctggcgctct caccaccatg gagaaggctg gggctcattt gcagggggga 420

gccaaaaggg tcatcatctc tgccccctct gctgatgccc ccatgttcgt catgggtgtg 480

aaccatgaga agtatgacaa cagcctcaag atcatcagca atgcctcctg caccaccaac 540

tgcttagcac ccctggccaa ggtcatccat gacaactttg gtatcgtgga aggactcatg 600

accacagtcc atgccatcac tgccaccag aagactgtgg atggcccctc cgggaaactg 660

tggcgtgatg gccgcggggc tctccagaac atcatccctg cctctactgg cgctgccaaag 720

gctgtgggca aggtcatccc tgagctgaac gggaagctca ctggcatggc cttccgtgtc 780

```

cccactgcc a cgtgtcagt ggtggacctg acctgccgtc tagaaaaacc tgccaaatat      840
gatgacatca agaaggtggt gaagcaggcg tcggagggcc ccctcaaggg catcctgggc      900
tacactgagc accaggtggt ctctcttgac ttcaacagcg acaccactc ctccaccttt      960
gacgctgggg ctggcattgc cctcaacgac cactttgtca agctcatttc ctggtatgac     1020
aacgaatttg gctacagcaa cagggtggtg gacctcatgg ccacatggc ctccaaggag     1080
taagaccctt ggaccaccag ccccagcaag agcacaagag gaagagagag accctcactg     1140
ctggggagtc cctgccacac tcagtcctccc accacactga atctcccctc ctcacagttg     1200
ccatgtagac cccttgaaga ggggaggggc ctagggagcc gcaccttgtc atgtaccatc     1260
aataaagtac cctgtgctca acc                                     1283

```

```

<210> 496
<211> 512
<212> DNA
<213> Homo sapiens

```

```

<400> 496
cctttcctca gctgccgcca aggtgctcgg tccttccgag gaagctaagg ctgcgttggg      60
gtgaggccct cacttcatcc ggcgactagc accgcgtccg gcagcgccag ccctacactc     120
gcccgcgcca tggcctctgt ctccgagctc gcctgcatct actcggccct cattctgcac     180
gacgatgagg tgacagtcac ggaggataag atcaatgccc tcattaaagc agccggtgta     240
aatgttgagc ctttttggcc tggcttgttt gcaaaggccc tggccaacgt caacattggg     300
agcctcatct gcaatgtagg ggccggtgga cctgctccag cagctggtgc tgcaccagca     360
ggaggtcctg cccctccac tgctgctgct ccagctgagg agaagaaagt ggaagcaaag     420
aaagaagaat ccgaggagtc tgatgatgac atgggctttg gtctttttga ctaaacctct     480
tttataacat gttcaataaa aagctgaact tt                                     512

```

```

<210> 497
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 497
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt cccaagggct      60
ttttttttca aagggccccc caaaaattcc ttttttaaaa ttccgggcct tggggttttt     120
agtgggaaat ccaaaaaaaaa aagccaagga aaccctgct tgaaaaatatt tttttttccg     180
gggcaaccaa ccaaaattgc cccttttttt tttcccgaat tgaccagggg ggaccccccc     240
ctttttcccc tcacatcctt tgatttgac agggctaagg gttccaaaaa catggaaaat     300
tttgaacttt gttttttttt gggttcaaaa tcctgcccc caccctcgta ggaggcaaat     360

```

tctggaaaaa tggattattt gtggttgga aaaaacaaaa aaaaaatggg gccg 414

<210> 498

<211> 6087

<212> DNA

<213> Homo sapiens

<400> 498

gccccgcggc tccgaactcg gtggtcctgg aagctccgca ggatggggga gaagatggcg 60
gaagaggaga gggtcccca tacaactcat gaggggttca atgtcacctt ccacaccacc 120
ctgggtgtca cgacgaaact ggtgctcccg acccctggca agcccatcct ccccggtcag 180
acaggggagc agggccagca agaggagcag tccagcggca tgaccatttt cttcagcctc 240
cttgtcctag ctatctgcat catattgggt catttactga tccgatacag attacatttc 300
ttgccagaga gtggtgctgt tgtttcttta ggtattctca tgggagcagt tataaaaatt 360
atagagttaa aaaaactggc gaattggaag gaagaagaaa tgtttcgtcc aaacatgttt 420
ttctctctcc tgcttcccc tattatcttt gagtctggat attcattaca caagggtaac 480
ttctttcaaa atattgggtc catcaccttg tttgctgttt ttgggacggc aatctccgct 540
tttgtagtag gtggaggaat ttattttctg ggtcaggctg atgtaatctc taaactcaac 600
atgacagaca gttttgcgtt tggctcccta atatctgctg tcgatccagt ggccactatt 660
gccattttca atgcacttca tgtggacccc gtgctcaaca tgctggctct ttggagaaagt 720
attctcaacg atgcagtctc cattgttctg accaacacag ctgaagggtt aacaagaaaa 780
aatatgtcag atgtcagtg gtggcaaa tttttacaag cccttgacta cttcctcaaa 840
atgttctttg gctctgcagc gctcggcact ctcactggct taatttctgc attagtgtg 900
aagcatattg acttgaggaa aacgccttcc ttggagtgtg gcatgatgat cttttttgct 960
tatctgcctt atgggcttgc agaaggaatc tcaactctcag gcatcatggc catcctgttc 1020
tcaggcatcg tgatgtccca ctacacgcac cataacctct cccagtcac ccagatcctc 1080
atgcagcaga ccctccgcac cgtggccttc ttatgtgaaa catgtgtgtt tgcatttctt 1140
ggcctgtcca tttttagttt tcctcacaag tttgaaattt cttttgtcat ctgggtgcata 1200
gtgcttgtac tatttggcag agcggtaaac attttccctc tttcctacct cctgaatttc 1260
ttccgggatc ataaaatcac accgaagatg atgttcatca tgtggtttag tggcctgcgg 1320
ggagccatcc cctatgcctt gagcctacac ctggacctgg agcccatgga gaagcggcag 1380
ctcatcggca ccaccacat cgtcatcgtg ctcttcacca tcctgctgct gggcggcagc 1440
accatgcccc tcattcgcct catggacatc gaggacgcca aggcacaccg caggaacaag 1500
aaggacgtca acctcagcaa gactgagaag atgggcaaca ctgtggagtc ggagcacctg 1560

tcggagctca cggaggagga gtacgaggcc cactacatca ggcggcagga ccttaagggc	1620
ttcgtgtggc tggacgccaa gtacctgaac cccttcttca ctcggaggct gacgcaggag	1680
gacctgcacc acgggcgcat ccagatgaaa actctcacca acaagtggta cgaggaggta	1740
cgccagggcc cctccggctc cgaggacgac gagcaggagc tgctctgacg ccagggtgcca	1800
aggcttcagg caggcaggcc caggatgggc gtttgctgcg cacagacact cagcaggggc	1860
ctcgcagaga tgcgtgcac cagcagcccc ttcaagacat aagagggcgg ggcgaggtag	1920
tggtgcaga gtcgccttag tccagaacct gacaggcctc tggagccagg cgacttcttg	1980
ggaaactgtc atctcccgac tctccctga gccagcctcc gctcagtgtg gtcctcagc	2040
ccacagaggg gagggagcat ggggccaggc gccagtcac tgtgaagcta gggcgccac	2100
ccccccacc ggaggacccc tgcggcccc tgcctagagg agcaccatct acagttgtgc	2160
cattccccag ccactgcctt catgctgccc ccgccggact ggcagagcca ggggtcagcc	2220
acctgccttt gagtcatcaa gatgcctctg cagccacaat tctgacctaa gtggcagggc	2280
ccagaaatcc tgaaaacctc ccgctgcctt ttgtgatact tctgtgtctc cctcagagag	2340
aaacggagtg accttttgtc ctttacctga ttggcacttc gcagtctatc tccttgggta	2400
gcagacggct gctgcccttc tctgggcatg ttctgaatgt ttacactggc accttctggc	2460
atcttcttta gagccccctg caagctgcaa ctctaggctt ttatcttgcg gggtcagagc	2520
gccctctaga gggaaaagct agaggcacag ggtttctgcc ggcccacaac tgctgtcttg	2580
atgtgcattt tacagcaaag tgctgagagc ctctagtcgc ctctgcat ctgatctccc	2640
tccccaccat tcccgctac agttgttctt ttgtctaatc ggaggccact gtgctgaggc	2700
cctgcagtgt ctgctcactg ctgccatctt cgctgctagt cagggttcca tctctttcc	2760
cctctcccag ttccctacca cgttggatcc cattcgtcac ccatgctagg gtccccaaag	2820
cactggggca ggggccagag cagcagcacc cagtgtctcc tctctactc tgacctgggg	2880
ccccagcatc ctggagcaca cgctccacgc acacacacc cagccctgtc ccaggggcct	2940
ggccccctca gccatctcag ggtgaggagc tgccagtcac gtccagatgg aatgactccc	3000
atctctcct catctccctt ttgacgagcc tcaaactgct cagctcatca aagagccatt	3060
gccaacttcc gtatgtgggt ctgggtccca gggagccttg gaacctggca ccctggggtg	3120
gtttaattca tcattaagaa gcattcctgc ttctcaaggg acacagtggc ctgcatgggc	3180
cagcatggac cctgggctga tcatgtgcat tctgtcttct ctggggacac agtgggcca	3240
catgggcccag catggaccct gggctagagc aagcacatct ccatctcttc cacctcaggc	3300
agtgtggctc cagatgtcag gagggactga cctcaggacc ttccaggctc ctctgtgcca	3360

ggaatgagag gccaggcccg atcctaccac ctgccttga ccctgaagtc agagcaggcc	3420
agccaagcag gaagcacact gtttactttt tgcataaaaa gtaaagtgtg acttgataga	3480
gctaaaatat gatctttttt aattttctcaa ccccataatt tgagccattg ccttgcttaa	3540
ttttggtttc caccatttcc ttttagtgga gaagagagga agtcagaggg tagggacctt	3600
tgccctgccc tgggcgagtg cgggcaggga tctgagacca gattgttctc gcacccctgc	3660
cagaactcac tctccctga agtttagggg cccatctccc agatgtaagt tgttttgcaa	3720
actcagtttg ccaggatttc tttctttcct aatcttaa at tcacagataa agcaatgaaa	3780
agagtcagat cccatttccg tctgccccct cgtcaccagg tgtgatagcc ccagccagg	3840
cacacctggc ctcacacttt gagctgagac ttgaaaacga tgctgtggcg gaagagcatg	3900
tggggccttg tggagggggc ccaggatttg ttgggggcaa agggggtggc gggaccgttc	3960
ccaggaggta ccagcacctg cctcgatctc ctctgagcct cttctgcccc ccgtcggcca	4020
ggtgaggtca gcagcctggg agagtgtccc caagagatga gggcaccccg tgttccttg	4080
caatcttggc tcaccttggg aacaaaaggc catagaagtc tgtttttctg ggtcagtttt	4140
ttttgcctga gaataacaaa ttgctgctgt ctaccttag cacaccaat aattctat	4200
ggggcagtga atgcatagaa gatataaaaa tacgcagctt aactatatct tcctgcgtgt	4260
gtatttat tcttctgggt ctaggccatg gtacaggaga actgtggcgt gtaggaggaa	4320
tacttcagga tgagtgaagg ctggagccag ggagcgctgg aggaaaccag cccttagcc	4380
agcagccccct ccaccacagg cactgctgtg tggaacgagt tcttggaatg aatcccatgc	4440
tttctgcagc ctgtagttgt tatgacctt cggaaacaacc acccgtggc ttgtgtggg	4500
tctcgcaggg aaaagggtg gcttctaggt ccccgagata agtgtgcagg gggatggg	4560
agggccaggc taagggtggc tcagttccat catctggagg tcagacacac tgtccagagg	4620
cagaactgaa gccctctcgg cccctacct. aagccagcca cccctcttca cagtgggtga	4680
gctgggctgg gctggctggc atgaggccaa ggggtaggcc tgagcgccag agtcgcccag	4740
gttagcccac aggattcctt tgtgtgccat ggaatgctga aagatgggtg actggggacc	4800
cttcttaaaa cctttggcaa aggtgccatc ggcagggtt ggcctcatga agtctcaggt	4860
ccgtgttccc gcagggcgca catgcttggg gagtcctcag cagggtagcc gagggcaggc	4920
cacttctgct gaggatgggg caggctgggg tgtgggtgtg gcctggggtg gctcagggt	4980
ggaactgctg cctgattcct gtgtggggag aagctcagtg gccgtttgct gccactgaca	5040
aggatttcac atgcagaaga gaaaaggccc cctccaccc cccgcattcc ctgccagtg	5100
agagccagtg tttgctgccc ttgctggggg cgggtaggaa accctgagct tcctgatgcg	5160
gagtcatgaa gcagagtcct cgggaaggca tctccacagc cccgggtcct ctgtctaacg	5220

ccctccattt cacgccctcc atctcacagt caagataaag gcctcgagaa taaagagcca 5280
 gcccccttcc atttagtctc ctgccgtttc ccaaacagtt gtccaacagt tagacattga 5340
 ggggcttcac tgttaccagg catgtaacag aaggaggaag actaacacac accccctgcc 5400
 ccatcccatc cccctctccc gagctatttt cttgctgtgg cctctggtgc ccttgagtgtg 5460
 gtctccccgg ctgctctgcg ggggcttcac tggcttcgga gtgagcgga agtgctggtg 5520
 agcagtgggc ctgtgattgg atgggaagat gtgcatccgt ggtcaaaagt cagctgccag 5580
 ccctgcggaa ccagagcctc aggctgggat ggggaggcct ccctgcttcc acctgcatgg 5640
 tgggcatggc ctggcttaca ccaaaggctt tgacggtttc tccaagtaag gatctgcaaa 5700
 tcttgaatcg tcctcaaaat gacgaagctt gaattgtcct caagatggat gtgaatctta 5760
 cattcctttt catcatttcc tttgtaaaaa tgacgagtgc tgggtttttg ttttaagaag 5820
 cattatgaag gccagactta ctcatTTTTT tcccccaagt gagctgcaag aggccctgt 5880
 taggcccctg tttcctgagc agtgatgtgc tgctcttctt ggtggggctt tgggctggga 5940
 ggggaaggcg ggtcagagat gggggacctg tggctgccat gcaggagccc ctgctcatc 6000
 tcgttggaact ctttaaggga gtcaggaata gatgtatgaa cagtcgtgtc actggatgcc 6060
 tatttagaaa taaagtgtat gctgctg 6087

<210> 499

<211> 657

<212> DNA

<213> Homo sapiens

<400> 499

cccggcacac cccgtaggac caatgctcag gccaaagggtg tccaaactat acagaccac 60
 agaatctaac aacagatgtc tcaatattcc tcgtcctaga actctcagag gatccagaac 120
 tacagccggt cctcgctggg ctgttctgt ccatgtgcct ggtcatgggtg ctggggaacc 180
 tgctcatcat cctggccgtc agccctgact cccacctcca ccccccatg tacttcttcc 240
 tctccaacct gtccttgctt gacatgggtt cacctccacc atgggtcccca agatgattgt 300
 ggacatccaa tctcacagca gtcattctct atgcggggtg cctgactcag atgtctcttt 360
 ttgccatttt tggaggcatg gaagaaagac atgctcctga gtgtgatggc cctatgaccg 420
 gttttagacc atctgtcacc ctctatatta ttcagccatc atgaacccat gtttctgtgg 480
 ctttctagtt ctgttgctt gtcgtctcag tcttttagac tcccagctgc acaatttgat 540
 tgccttgcaa attacctgct tcaaggatgt ggaaattcct aatttcttct gtgaaccttc 600
 tcaaattccc cagcatgcgt gtagtgacac cttcaccaat taacatagtc atgtatt 657

<210> 500
 <211> 1909
 <212> DNA
 <213> Homo sapiens

<400> 500
 gctggtggtg gcgcgcggcg cggcgcggcg atggcggcgg gtggcagcga tccgcgggct 60
 ggcgacgtag aggaggacgc ctcacagctc atctttccta aagagtttga aacagctgag 120
 acacttctaa attcagaagt tcatatgctt ctggaacatc gaaagcagca gaatgagagt 180
 gcagaggacg aacaggagct ctcagaagtc ttcattgaaa cattaaacta cacagcccgt 240
 ttcagtcgtt tcaaaaacag agagaccatt gccagtgttc gtagcttgct actccagaaa 300
 aagcttcata agtttgagtt ggctgttttg gccaaccttt gccagagac tgctgaggag 360
 tccaaggctc taatcccaag cttggaggga cggtttgaag atgaggagct gcagcagatt 420
 cttgatgata tccagacaaa gcgcagcttt cagtattaat ctccaaacat cactgctgct 480
 cggagaaacc acatccccag gcataacacc accttcccac tgtctggggc tgacttgcac 540
 agaaattctg ttgaagacag ttgagaattc ctttgagaga aacagcccag cttggcgtgg 600
 ggtaggttg ctgtttcaaa taactcacag gccagggtga catggaatct tggagcagcc 660
 ttgtgcagtg gcagccagtg gcttcctgaa cgtgcctctg cgaagtgtga gatgaggggt 720
 cacataacca cactgttgac tacctcattc ctggtttttg gcctccacat catctttttt 780
 cttaatatat catgttttaa tttcagggtg tttatacttt ttgaaactag accagaagat 840
 agtagacttt atagagaaaag accagtttta cctagatact aaaggaagaa ttaaaccgct 900
 gttagtttga aatgcttttt tttttttttt ttaaattggag ataggggtctt aactcttgct 960
 caggctggag gagtgcagtc gtacagtcac ggctcactga agtcttgacc ccgctgcctc 1020
 agcctcccaa ataactgggg ccacagggtg gcaccacaac tctcagctaa tttttaaaat 1080
 tttttataga ggtgggggtt tactatgctg tccagactgg tcttaaaactc ctgggctcaa 1140
 gtgatcccc tgcttgggc tcccaaactg gtgagattac aggcattgagc caccacaact 1200
 ggctgaaat tcttaaagga tgggagtgct gatgacagca ccttggcatc gttgtgccta 1260
 acctgggaga cggaagaagc acgcatggg aagtgtttac acttggggga caagtgctaa 1320
 gtattgtgga gcccatagcc ccttgagata gatggctact ttgcctttct tcttgaactg 1380
 tcttgagaaa tgtggatttg gggtaagtgg tcttgaagga ttcatttagt caccctcaaa 1440
 ttaagatttt tacttcatct ttcttgggcc tgcacctcca agataacaaa gaagaagcaa 1500
 tggctcgtgc aaagagggtc acaaccagg gtgcactgtt cactgcagcc catttgctgt 1560
 atgaactgtg gttgttgtgt gcccaatgac aaggctacta agaaattcat catttgaaac 1620
 gtagaggccg cagcagtcag cgatgtttct gaaatgagca tccttgacgc ctgtgtactt 1680

cccaggctgg atgtgaagct acattaccat gtgagttgtg ccattcacag cacagtgggtg 1740
 aggaattgag ctcatgaagc aggcaaggac cgaacacctc caccccaacg tagacctgca 1800
 ggtgctgccc catgacctcc accaaagccc atataaggag cggagttggt aaggactgaa 1860
 gaaaaacttc tctggagaaa aataaaattg caattctact taaaaaaaaa 1909

<210> 501
 <211> 912
 <212> DNA
 <213> Homo sapiens

<400> 501
 cgcttcgccc tacctcgccc aggctgccag accggaagcg ctccgctgta cctggatcct 60
 gctcctctgg gttgaaaccc gggcgccgcc aagatgccgg cttaccactc ttctctcatg 120
 gatcctgata ccaaactcat cggaaacatg gcactgttgc ctatcagaag tcaattcaaa 180
 ggacctgccc ccagagagac aaaagataca gatattgtgg atgaagccat ctattacttc 240
 aaggccaatg tcttcttcaa aaactatgaa attaagaatg aagctgatag gaccttgata 300
 tatataactc tctacatttc tgaatgtctg aagaaactgc aaaagtgcaa ttccaaaagc 360
 caaggtgaga aagaaatgta tacgctggga atcactaatt ttccattcc tggagagcct 420
 ggttttccac ttaacgcaat ttatgcaaaa cctgcaaaca aacaggaaga tgaagtgatg 480
 agagcctatt tacaacagct aaggcaagag actggactga gactttgtga gaaagttttc 540
 gaccctcaga atgataaacc cagcaagtgg tggacttgct ttgtgaagag acagttcatg 600
 aacaagagtc tttcaggacc tggacagtga agggagcccg ggcagccacc gtctccagag 660
 ccctgggcag cattttccag caagatgtac acaatctttt gcctttattt cgtaaagttt 720
 tatacagaag agagaagagc atgtctttac ttgaaaaact cttgatcaag aatttgggtg 780
 ggagaaaaga aagtgggtta tcaaggtga tttgaaattt tctgcagcat taaagctggc 840
 gcttaataag aataagtaat aataaagaaa tttctaacat tccccaaaaa aaaaaaaaaa 900
 aaaaaaaaaa aa 912

<210> 502
 <211> 2227
 <212> DNA
 <213> Homo sapiens

<400> 502
 taattcagaa ttgagtaaag aaatattttt tctagtcctt catatattga aaacttgcca 60
 catgacattg tatcgtcttc attttccaga agatgcgttg gtgtgccata ggtttctaac 120
 ttccttgaaa atagtttttt aagtcaattg taaatatacg tattattgtt aaaagtaact 180

ttaaactgca acacatagct tcaaaacaat atagagattt tgtaatacct tataagtgga	240
gttggctaaa ataccttata catataaaac ttatttctatt ctttgcatgc ttattttgtg	300
tgttggttgc tagcttaaag ttgatttgt tgttactctt tgtgtgccaa attcactagg	360
caagcggatt tttcctcaga cttcaaaaaa taattctttt aagaaaaaat gtaaaaatgt	420
ttatttctaaa aagctgcatt aaagggacaa cctataaaaa gttttgctag ctcactctta	480
gaaggaagaa agaataattag cttgggtgat gtttaatttg ggtggcgata gtttctgtag	540
gctaaacttt atgagaaaag tgtacctact ctataaaggt aataaatgta aaacctcttg	600
ctgttattga ggaagctctt caactacctt aaatttcaca aatgtaactt ataactat	660
gaaaagattt gaccaacaat ttacgtttgc tgtgtgcttt agtttttgtt taagcatatt	720
cttttgcttg aatttctgtg ttcagagag ttagggtgtt ttatgcttct tgaactaatt	780
ttataacata tttaatatat taccagttaa gatataaaat catttgtaca tagcgaattg	840
taaagcagct attaaagtag gtgaaataaa gtatatattt gccggttata catatctttt	900
agaagtctg acagaacaac cagtttattt gcacataggt agcttctgtt tgaaggaagg	960
taaagttata aggaaactca aatactataa gatgtgtcaa ggtatttctc cagaattaat	1020
tgcaaagcta gtgctgaagg attttaatca gcttctaaaa ttttcttctc aataagacat	1080
atgttttgat tacttaggga agattcctca tttttatttg ccctttatgc atttaatcca	1140
catgatagga cattaaaaat taatataaag aaaaatcgtg ctcatactgt acatctattt	1200
ctgtgcttgg aactacttgt taatagtttt tatcgaagct gtcagcaata agggacataa	1260
aactgctgta ttatacattg tggaattgaa taaacagcct aatttttttt tttctagtat	1320
agggtactta agcatttcca cttttggaag aaaagtgtat tagtatttta tattgcattt	1380
catttaaaag gacagttttt ttttttttg taaatccatt cattgaaatg gtttctaaac	1440
tgtataatgt aatttgagc ctatttagta atagaattaa atgtcctatg tagtgctaca	1500
atttttgaat tagaaagtga tcaaatgtaa gaaaaaatt taaaaattca gccagaaaa	1560
caaaatagtg tattaaatta gtttaatgta aaaggaattt ataagatttt tttcctcaat	1620
atagatacct cacttgaaaa gaaagcacag catacttaaa gtagttctag taaacatgtc	1680
ctagaaaaca gttgctaaat gtaggacatc ttttgaggaa ttagtttatg agaaataaaa	1740
ttttacttgt ttttactatc ctgttagaag tatttgttta tcttgataat ttttaagccaa	1800
catagtagtc ttaaattact tttgaatttc taatctgtga aggcagtaaa tgaaatatct	1860
gttctgcaac tgttgaaaca aataattggc tacattgacc ataattaaag ttaaaatttt	1920
gccaatgatg tacagtttta tggttaaagt tgctgtggtt ggttgcatga catgacacag	1980
aaaactgtcc tctacctcac gtgaaataaa tattttatat ggttttacta aaaataagac	2040

tcattgtatct	ggtcacctag	ttacaaaatt	ttgaattata	tttattgaaa	catgacatac	2100
tgtgtctctga	gcttatacct	caattgtatt	ttgtgtctgtt	ttccattttc	atgccttgta	2160
aataacttgt	atagattgtg	gatcaaatac	taaataaaaa	cttttaaatgc	caaaaaaaaaa	2220
aaaaaaa						2227

<210> 503
 <211> 2992
 <212> DNA
 <213> Homo sapiens

<400> 503	
taagcctcat	60
agtcctaagaa agccctcaag caaggctaac attttgggtca tctgcgagaa	
gattgagcac tcggtgtcct tgctcctttc agcttcgcag catcttcttg agcagcatga	120
gcttctcact ctgactcata agtctccac cctcataagc cccactgggg agtttggggg	180
cctctattgc catgtgcctg gaattattat atgctcatca ctttatgata cdhcaadatt	240
tgtcdtgvct gyctttaaaag ttacattcgt tcttcgcgtc aaatcctgat ctggtccatt	300
aaagagtgtt cgcagacaaa gtttctgaaa gattagagaa gaatcccc caagattgcc	360
ccaacactga actacagaca aacactatatt tattttaaata aggagacagc tttctaaaag	420
tatacattct ctaataaaaa tagtttatta ttttgaatga tttaatgggt ttctacacaa	480
tttacatcac aacatgtaaa ttttagcagt aacatctgat tctaacagca catcatgcta	540
ttcctttcat agagccttca gagattcaat gctaaacaaa tttccttagt tggcatcaag	600
gcactgatca ctttagaggc ttttaagaaa ttatttaaag atgcaaagtc ctctgagtga	660
agtgtactat cccatcactg aagccacag gaacaagtcc tacaatttta aaaaggctcg	720
atgggaaaaa tttctcaatc ctgaaatccc ctagggaagg ggtcaggag gaaagtgcc	780
tgggtgatat ttaaggaact ccacagctct taaaaataa gcacttatcc cctaaccatg	840
gcaatactgc agaatgcaag ttaaacttat cstgttaaag agctgcctgc tgttttcctg	900
ctcccaagat gaaatgaagc aactcttctg ataacgaaga gatacctgtc tgagscaaac	960
gaaacattgg cacacagcac agcctctca atccacttga tcccaactca tctctcattt	1020
atttcggctt cttttattcc aggattaatg tagtgtaaca ttttcatttc ttttcgcttt	1080
tattctgctt ttgtaaaagc agtattttga gatggacatt gccctcttca ttgtatttct	1140
catcaattca ttatttttgt gggtatagct tgacaagcaa ttaactttaa aatggtagat	1200
tccgtaactt taaattggta gctttcattt gcttaaaatt ttttggcata tgcagataat	1260
gttctcatca gtagtaagaa tctcagggtt atgcttattc cccaatggag gtatgacata	1320
taatcttttc tgcttttact tatcaattca ccaaggagct gttttctctg catctaggcc	1380

```

atcatactgc caggctggtt atgactcaga agatgttatc tgaaaaaagt ctatagaaaa 1440
aaaaaaacak gtccctctcc tcatcaacaa aagcccaccc tctaagagac attcaagctg 1500
aactatcaca attcttaatc agttacaatt tacaaacaga taagtttaaa ataaacaatt 1560
tacaaaatth ttgaagcata ccttaacatc ttgttttgca gttaaacaat ggaaaagtat 1620
ttctcttaca ctaaaaaaaa acttgcttra cacacaactg aaaatagaat cttacttgat 1680
aatacaaaag ctaccatcag aagaaatccc ttcaggatca ttaagccact tcctttgctc 1740
tgcagtttct atagtagttt taaattatta ttaaaccacc tgaaaaaaat tccaaaagag 1800
aaccacacac taccatatcc aaacaacttt tgcatttccc ataattgtag ttaatgtcag 1860
cccagtaggc cagaccaacc cccagttcaa tactttcctt ccccaaagc tctatacttt 1920
ggaggaaaac agatacagta tcaaattatg acactttcct tgcccaaatt aatgcactgg 1980
tacaccaggt ggctcatatt taacttcccc cagcttccca attcaaactg gggggaaaaa 2040
aactaaatca ttgggagtta cttgccact tggaagttga tatttcttta ctttttccat 2100
tctaagactt taagttctct ggcatgagtt tatctgcaat cataaactaa acaattacct 2160
aaaccacccc caccaatccc aaccgtaaca ggccactgcc aactaattgc caatatttgc 2220
ccctccccct taataaaact tttaagaagt cacattattg gaaaacttaa cttcaacatt 2280
tggcctactc aagctcttct gaagttctcc tgagatgact gaatatgaac caaagctgca 2340
ctgtgctgta cttttcagct tcaactggga atactctccc aaggataaaa gcagctccag 2400
tccctgaagg tgttcgtgcc aacagcacag cggtagactc cttctctaac ccagtttgctc 2460
aatagtacta tagcatctgt ggaaaatctt agaaaaaac attttctccc ccaccctctc 2520
tcttccctgt taagaccatc ccaaaatgct tcaagtaaaa aataacaagt ttaaggggtt 2580
aagcactttt aaagtctgat taaggggggtg gggggaaaaa agagtaacta ccagccattt 2640
ctccaatgga catctcttcc acagacctca acgtgagaac tgctctagtt tctataaact 2700
gtaaacctgt ggtggtctga ttatcctgat attggatttt cttgttttct gttacacctt 2760
gagtcatttg cttttaggat tctagacaga cctaagggaa aaagaactga aaacatattt 2820
tgccccacc cccacaaaaa aaaatactga aaactcccc cgcctcagt tacacatcca 2880
aactctacat ttacaaaacg aattcagggg gaggaagtaa aaacaggtca tctattcaca 2940
aaactgaaat acttcattac cccaactaaa catacaaact gcttacagat tt 2992

```

<210> 504
 <211> 972
 <212> DNA
 <213> Homo sapiens

<400> 504
 gcatgagtag tgctctttat gaaacgcaac atgcaataat agagtaggta tggtttcaga 60
 agtcagagca gcagggtttt tttgtttggt tttgttttac actatgctaa tttcagacaa 120
 acagttttca atttagaaat acaaaaactt ttaaactcga aaaatggcga aacttggttt 180
 tttgggaatg tgtttttact ttgcatcaag atgaatttag gagaaaatca cgggtgctttt 240
 attaaatgaa cttcagatat atgtaaattg ttttttaaag ttacatcatt aacattagta 300
 acctagcatt ttcattattg gtataggaat taatgtttat tgtacagtat ctaaggtaaa 360
 atgtgtttct gttttgtaaa aactactgta gatttttact tacaagtgcc tttttgccac 420
 ctaatgtttt tatttatagg aatgctgac ttttgtacat acattttgtt ttaaaatcat 480
 gtttaataaa tgtttgtata taaatgcata tgtacagaag cctatttcaa aaggaaatca 540
 aagttgctag taaaatgttt gagattacat ttagaactaa ctgataatgc atatagattt 600
 gtgaaaattt tgtgattgtt ctgtgtgata agggaagctg ttggtcttga attctttaat 660
 tttgtccaaa atagttgcc caagatttaa attttgaggg tggcttcttt aagcagtaat 720
 ttattcatgt ccagtggctt ccattagatg ggggaacgta ccggtgttgg cgccaacttt 780
 aaacattctt caaatctagt tcgcggggca gacgcgttcg ctcccaggg cgtcgaaaat 840
 actttcagta cgatatggcc gctccagaaa aggcgttccc gtgatgaagg atctcaacga 900
 aaggctcaca ctaacagggg aggattacag caccacaata ctacatatct tctatatatc 960
 ttcttttcta ca 972

<210> 505
 <211> 2631
 <212> DNA
 <213> Homo sapiens

<400> 505
 ggcacgagga acaacctatt tgcaaagttg gcgcaaacat tcctgcctga caggaccatg 60
 gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag 120
 aattaatagg acttgatgg gattgtggtg agagaaagtg aaatgaaaga taagttctag 180
 tttggaagtt ttaacaactg aatgtttaaa ctcaaataga caaaaatat tggaagagtg 240
 gcaggtttgg gaggatgaga caatcaactg tttggttgag ccacgttagg tttgaaatgt 300
 ctacgggata ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct 360
 gatagtttag atgaaaagag agcatgatat ttaagccct gagactggat aatatcacct 420
 atagaaagac tatatagaga taagagaggt ggggaacaag taaaagctgc gggacactcc 480
 taaatttaga gtcaaattta gagcagaaaa tactagcaaa ggggactgaa aagcgggtggc 540
 caattgagct tcaaatgcaa gtgaaagtgt gttgtgtgta catttatcat ctcatggcac 600

aggaaaaacg	tgatttaagg	agaaggaagc	gatccaatgg	gaagaagaga	tccaatggat	660
cctctatcac	gaagatattg	agataagaac	caatatggat	ttgcacccac	tgcatTTgca	720
gccttgaggt	cataagcatc	ctcaggaaaa	tgccaccaggt	gctgctggca	agatggaaac	780
caacttctcc	actcctctga	atgaatatga	agaagtgtcc	tatgagtctg	ctggctacac	840
tgttctgcgg	atcctcccat	tggtggtgct	tggggtcacc	tttgcctcg	gggtcctggg	900
caatgggctt	gtgatctggg	tggttggaat	ccggatgaca	cgcacagtca	ccaccatctg	960
ttacctgaac	ctggccctgg	ctgacttttc	tttcacggcc	acattaccat	tcctcattgt	1020
ctccatggcc	atgggagaaa	aatggccttt	tggttggttc	ctgtgtaagt	taattcacat	1080
cgtggtggac	atcaacctct	ttggaagtgt	cttcttgatt	ggtttcattg	cactggaccg	1140
ctgcatttgt	gtcctgcac	cagtctgggc	ccagaaccac	cgcactgtga	gtctggccat	1200
gaaggatgat	gtcggacctt	ggattcttgc	tctagtcctt	accttgccag	ttttcctctt	1260
tttgactaca	gtaactattc	caaattggga	cacatactgt	actttcaact	ttgcatcctg	1320
gggtggcacc	cctgaggaga	ggctgaaggt	ggccattacc	atgctgacag	ccagagggat	1380
tatccggttt	gtcattgggt	ttagcttgcc	gatgtccatt	gttgccatct	gctatgggct	1440
cattgcagcc	aagatccaca	aaaaggggcat	gattaaatcc	agccgtccct	tacgggtcct	1500
cactgctgtg	gtggcttctt	tcttcatctg	ttggtttccc	tttcaactgg	ttgcccttct	1560
gggcaccgtc	tggtctaaaag	agatgttggt	ctatggcaag	tacaaaatca	ttgacatcct	1620
gggttaacca	acgagctccc	tggccttctt	caacagctgc	ctcaacccca	tgctttacgt	1680
ctttgtgggc	caagacttcc	gagagagact	gatccactcc	ctgcccacca	gtctggagag	1740
ggccctgtct	gaggactcag	ccccaactaa	tgacacggct	gccaatctctg	cttcacctcc	1800
tgccagagact	gagttacagg	caatgtgagg	atgggggtcag	ggatattttg	agttctgttc	1860
atcctaccct	aatgccagtt	ccagcttcat	ctacccttga	gtcatattga	ggcattcaag	1920
gatgcacagc	tcaagtattt	attcaggaaa	aatgcttttg	tgccctgat	ttggggctaa	1980
gaaatagaca	gtcagggtac	taaaatatta	gtgttatttt	ttgttttttg	acttctgcct	2040
ataccctggg	gtaagtggag	ttgggaaata	caagaagaga	aagaccagtg	gggatttgta	2100
agacttagat	gagatagcgc	ataataaggg	gaagacttta	aagtataaag	taaaatgttt	2160
gctgtagggt	ttttatagct	attaaaaaaa	atcagattat	ggaagttttc	ttctattttt	2220
agtttgctaa	gagttttctg	tttctttttc	ttacatcatg	agtggacttt	gcattttatc	2280
aatgcattt	tctacatgta	ttaagatgg	catattattc	ttcttctttt	atgtaaataca	2340
ttataaataa	tgttcattaa	gttctgaatg	ttaaactact	cttgaattcc	tggaataaac	2400

cacacttagt	cctgatgtac	tttaaataatt	tatatctcac	aggagttggt	tagaatttct	2460
gtgtttatgt	ttatatactg	ttatttctact	ttttctacta	tccttgctaa	gttttcatag	2520
aaaataagga	acaaagagaa	acttgtaatg	gtctctgaaa	aggaattgag	aagtaattcc	2580
tctgattctg	ttttctggtg	ttatatcttt	attaaatatt	cagaaaaatt	c	2631

```
<210> 506
<211> 1379
<212> DNA
<213> Homo sapiens
```

<400>	506					
ggcacgagga	tctttcccag	ttgttccgcc	ccctaccccc	gcctcccgc	ccgcgccct	60
ctccggctgc	cctctccgcg	tggggcaagg	ctccgagggc	agcattcagt	agccatttag	120
ctttggaagg	agaggtgatt	cgaatggccc	ggctcctcct	gtcaccatgc	caggcacttt	180
ggccgcgcag	gtgctgacct	gaacctgggt	catccctttc	tgacaaaaac	tgttctactca	240
ccgtggaagg	gactaagcat	ccatatggag	acgccaccag	tcaatacaat	tggagaaaag	300
gacacctctc	agccgcaaca	agagtgggaa	aagaaccttc	gggagaacct	tgattcagtt	360
attcagatta	ggcagcagcc	ccgagacctt	cctaccgaaa	cgcttgagct	ggaagtaagc	420
ccagatccag	ccagccaaat	tctagagcat	actcaaggag	ctgaaaaact	ggttgctgaa	480
cttgaaggag	actctcataa	gtctcatgga	tcaaccagtc	agatgccaga	ggcccttcaa	540
gcttctgac	tctggtactg	ccccgatggg	agctttgtca	agaagatcgt	aatccgtggc	600
catggcttgg	acaaacccaa	actaggctcc	tgttgccggg	tactggcttt	ggggtttcct	660
ttcggatcag	ggccgccaga	gggctggaca	gagctaacta	tgggcgtagg	gccatggagg	720
gaggaaactt	ggggggagct	catagagaaa	tgcttggagt	ccatgtgtca	aggtgaggaa	780
gcagagcttc	agctgcctgg	gcactctgga	cctcctgtca	ggctcacact	ggcatccttc	840
actcaaggcc	gagactcctg	ggagctggag	actagcgaga	aggaagccct	ggccagggaa	900
gaacgtgcaa	ggggcacaga	actatttcga	gctgggaacc	ctgaaggagc	tgcccgatgc	960
tatggacggg	ctcttcggct	gtccttgact	ttacccccac	ctggccctcc	agaacgaact	1020
gtccttcatg	ccaatctggc	tgctgtcag	ttgttgctag	ggcagcctca	gttggcagcc	1080
cagagctgtg	accgggtgtt	ggagcgggag	cctggccatt	taaaggcctt	ataccgaagg	1140
ggggttgccc	aggctgccct	tgggaacctg	gaaaaagcaa	ctgctgacct	caagaagggtg	1200
ctggcgatag	atcccaaaaa	ccgggcagcc	caggaggaac	tggggaagggt	ggtcattcag	1260
gggaagaacc	aggatgcagg	gctggctcag	ggtctgcgca	agatgtttgg	ctgattaaaa	1320
gttaaacctt	aaaagagaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1379

<210> 507
 <211> 2059
 <212> DNA
 <213> Homo sapiens

<400> 507

```

gtgtgagagg ggtagggagt gctcccggcg gcgacggggc cgagttcacc agccgccggg      60
gcagtagtcg aaggccccgc gcggcatgtc ctgggtgccg cggtgccggc agtgaacgcg      120
cgccggggcg gatggggccg cgccggggcg cagagctgta ccgggctccg ttcccgttgt      180
acgcgcttca ggtcgacccc agcactgggc tgctcatcgc tgcgggcgga ggaggcgccg      240
ccaagacagg cataaagaat ggcgtgcact ttctgcagct agagctgatt aatgggcgct      300
tgagtgcctc cttgctgcac tcccatgaca cagagacacg ggccaccatg aacttggcac      360
tggctggtga catccttgct gcagggcagg atgcacactg tcagctcctg cgcttccagg      420
cacatcaaca gcagggcaac aaggcagaga aggccgggtc caaggagcag gggcctcgac      480
aaaggaaggg agcagcccca gcagagaaga aatgtggagc ggaacccag cacgaggggc      540
tagaactcag ggtagagaat ttgcaggcgg tgcagacaga ctttagctcc gatccactgc      600
agaaagtgtg gtgcttcaac cagcataata ccctgcttgc cactggagga acagatggct      660
acgtccgtgt ctggaagggtg ccagcctggg agaaggttct ggagttcaaa gccacgaag      720
gggagattga agacctggct ttagggcctg atggcaagtt ggtaaccgtg ggccgggacc      780
ttaaggcctc tgtgtggcag aaggatcagc tggtagacaca gctgcactgg caagaaaatg      840
gaccacctt ttccagcaca ccttaccgct accaggcctg caggtttggg caggttccag      900
accagcctgc tggcctgcga ctcttcacag tgcaaatcc ccacaagcgg ctgcggcagc      960
ccccctcctg ctacctaca gcctgggatg gctccaactt cttgccccct cggaccaagt     1020
cctgtggcca tgaagtcgtc tctgcctcg atgtcagtga atccggcacc ttcctaggcc     1080
tgggcacagt cactggctct gttgccatct acatagcttt ctctctccag tgctctact     1140
acgtgagggg ggcctatggc attgtggtga cggatgtggc ctttctacct gagaagggtc     1200
gtggtccaga gctccttggg tcccatgaaa ctgccctgtt ctctgtggct gtggacagtc     1260
gttgccagct gcatctgttg ccctcacggc ggagtgttcc tgtgtggctc ctgctcctgc     1320
tgtgtgtcgg gcttattatt gtgaccatcc tgctgtcca gagtgccttt ccaggtttcc     1380
tttagcttcc ctgcttccg ggaatcagga gcctggacac tgccatctct agagcagagt     1440
ggaggcctgg actccctttg ctcaactccat tcgggtccac agctgagggt gcctctgaca     1500
agatgaatgg gcactgcctg cccttctagt gaaaaggctt ggctatggcc ctgtgtgact     1560
ccagggtcca ggaaccttgc cttcgtcctc tgtggatcca tccagaacag cggtatctga     1620

```

agcccaggcc atactccctg cctcctttct tctgcctacc agaggctcca gagttgagct	1680
tgtccttatac tagaaacatg tgaagatgcc caagagcctg gaggcactgc tgtccttcct	1740
gcagaaacag tttctcctcc tcccctcagc cttgtggcca gttcctcttc acatgaagcc	1800
cctggcattt gctggggaag ggactggcct ggtacttgct gttagggcag gaaggggcaa	1860
aaggaagact tgggtagtaa tctgggggtt cagatgggta gcactaagcc agctggccta	1920
aagatgcaat aagttcctag gtagtctacc cttaccttga ggaatgggaa aatgaacctc	1980
agcccattag gcaggaaaag ttgatattta ataaacaagg aaagagtga ctgagacccc	2040
aaaaaaaaa aaaaaaaaaa	2059

<210> 508

<211> 1028

<212> DNA

<213> Homo sapiens

<400> 508

aatgcaagag gcagttgtta gtcttcaggg cttggcaact gaaatagcta tgtggcggat	60
acggaaaaca gaggacaatt tgaggatctt gctggaataa taaatgacag ctaccatttg	120
ttgagcacct attatatatc aggcactgag ctgggtaggc tctaaacttc acaataaccc	180
tgtgacttaa ctactttatc tccattttgt agttgaagaa ataagtctag agagaaagat	240
tccttcccaa ggtcatgcag ctagtaaatg atagaatcag gattcatagc atcactatag	300
ggggtaata ttacacaaa aaaggaaagt cacaagcctg tttaaatga agtgaccacc	360
ttttcttgca tagactaaat aactcgaact ggcattttta gggttgaaag acagctgaat	420
tagtagttaa gtctgatagc caagtaagtt ttaaaaacca aagcatccag gatgcacacc	480
cctgcaccat ttgctgtgcg aattaatagt tctgtctctc tctctctttc ttttttcttt	540
ttattctttg agatggattt tcgctcttgt cgcccaggct ggagtaccgt gagccaagat	600
cacgccactg cctccaggct gggcaacaga gtgagactcc gtctcaaaaa ttaattgcat	660
tttgttagaa aggtcacaaat ggctattaaa ttacatctc tatttcatct tcaaggagat	720
ccggggataa tatgctatgc ggcttgacct gtttgacacc accctctttg gaataatggc	780
ggccctcact taaggcacca tatggcccca atatatgagc aactggagca actacccaaa	840
gtatacagac aaaaaaattt ttcacagaac ttcttttgag ggcccttgac aaaagggagg	900
ttacctacac aacacaaagt tggcccccatt aaattaacgg ccatcacacc cacgactgac	960
ggtgatcaaa caaattcaca gcacagacac cgcgcaacaa cgcaacttct ccagcaggac	1020
atcgactc	1028

<210> 509

<211> 1406
 <212> DNA
 <213> Homo sapiens

<400> 509

```

cctctgcggc gtcactggga gcccgcgga aaactgcgct aaaggcttgt ctttccctg      60
cccgaccgaa ggagccgacc ttgcctgcgc tacagcttcc ttattttcgt cgcctgttct      120
cctgatcctg cgtgttctaa aaaccctta ggctttccat gggttcccag accatggcgg      180
tggcgctgcc cagggacttg cggcaggacg ccaacctggc aaagaggagg cacgcggagc      240
tgtgcaggca gaagcgggtc ttcaacgcca gaaacaggat aattggggga gacactgaag      300
cctgggatgt tcaagttcat gaccagaaga taaaagaagc tactgaaaaa gctagacatg      360
aaacctttgc tgctgaaatg aggcaaatg acaaatcat gtgcatattg gaaaaccgga      420
aaaagagggg taggaaaaat ctctgtaggg ctatcaatga cttccaacag agctttcaga      480
agccagaaac tcgccgtgaa tttgatctgt ccgacccct agcccttaag aaagatcttc      540
cagcccgga gtcagataat gatgttcgga atacgatatc aggaatgcag aaattcatgg      600
gagaggattt aaacttccat gagaggaaga aattccaaga ggaacaaaac agagaatggt      660
ctttgcagca gcaaagggaa tggaagaacg cccgtgctga acaaaaatgc gcagaggccc      720
tctacacaga gacaaggctg cagtttgacg agacagccaa gcacctccag aagctggaaa      780
gcaccaccag aaaggcagtt tgtgcatctg tgaaagactt caacaagagc caggccatcg      840
agtcagtgga aaggaaaaag caagagaaaa agcaagaaca agaggacaac ttggccgaga      900
tcaccaacct cctgcgtggg gacctgctct ccgagaacct gcagcaggca gccagctcct      960
tcgggccccca ccgcgtggc cctgaccgct ggaagggcag gaccaggag cagctggagc     1020
agatccgcct agtcagaaag cagcaaattc aggagaagct gaggtccag gaagaaaagc     1080
gccagcgaga cctggactgg gaccggcgga ggattcaggg ggctcgcgcc accctgctgt     1140
ttgagcggca gcagtggcgg cggcagcgcg acctgcgcag agctctggac agcagcaacc     1200
tcagcctggc caaggagcag catttgcaaa aaaaatatat gaatgaagtc tatacaaatc     1260
aaccacggg agactatttc acacaattta atacaggaag tcgataatga ggaacacacc     1320
cttgttcccg tcattcacgt ataaagagtg gctaccttaa aaaaaaaaaa aaaaaaaaaa     1380
aaaaaaaaaa aaaaaaaaaa aaaaaa                                     1406

```

<210> 510
 <211> 4357
 <212> DNA
 <213> Homo sapiens

<400> 510

```

atagtcacca gaagctggaa gagtcaaagg acacattctc ccctcaagcc ccagtgggag      60

```

cacggcccag ctggatTTTTg gacttctggc ctccagaact agacagggcc tcacggtgtc 120
 acccaggggtg gaatacagtg gtgtgatcat agctcactgc agcctggaat tcctgggctc 180
 aagcaaccct gccacctcag ccttccaagt agctaggact acagaacatc catgatagca 240
 gtcttctgta aatcgaactt ttcaagaatt ctctgaagga accaagtagg atattcttac 300
 atcatgactt aatgtgaatg caagaacaag aaatagggtt tatctctaaa tataatgaag 360
 ggctgtgtgt aaacactgac cctgtctcaa ttctaacaag catttttagac atgagtttac 420
 - atcggcaaat ggggttcagat cgagatcttc agtcctctgc ttcattctgtg agcttgccctt 480
 cagtcaaaaa ggcacccaaa aaaagaagaa tttcaatagg ctccctgttt cggaggaaaa 540
 aagataacaa acgtaaatca agggagctaa atggcggggt ggatggaatt gcaagtattg 600
 aaagtataca ttctgaaatg tgtactgata agaactccat tttctctaca aatacctctt 660
 ctgacaatgg attaacttcc atcagcaaac aaattggaga cttcatagag tgccctttgt 720
 gcctttttgcg gcattctaaa gacagatttc ctgatataat gacttgtcat cacagatctt 780
 gtgtggattg cttacgacaa tatttaagga tagaaatctc tgaaagcaga gttaatatta 840
 gttgcccaga atgtactgag cggtttaatc cccatgatat tcgcttgata ttaagtgatg 900
 atgtcttgat ggaaaaatac gaagaattta tgcttagacg gtggcttggt gcagatcctg 960
 attgtaggtg gtgtccagct ccagactgtg gatatgctgt gatagcattt ggatgtgcca 1020
 gctgtccaaa attaacttgt gggcgagagg gctgtggaac agagttttgc taccactgta 1080
 aacagatttg gcacccaac cagacctgtg atgctgctcg acaagagaga gcccagagct 1140
 tacgtttgag aactatacgt tcttcatcca ttagttatag tcaagagtct ggagcagcag 1200
 ctgatgatat aaagccatgt ccacgatgtg ctgcttatat aataaagatg aatgatggga 1260
 gctgcaatca catgacatgt gctgtttgtg gttgtgagtt ttgttggttg tgtatgaaag 1320
 aaatctcaga tttgcattat ctaagtccat caggatgtac tttttggggg aagaaaccct 1380
 ggagccgaaa gaagaaaata ttgtggcaac tgggaacact ggttggtgct cctgtcggaa 1440
 tcgctttaat agctggcatt gctattcctg caatgattat tggcattcct gtgtatgtgg 1500
 gccgcaagat tcacaatcgc tatgaaggca aggatgtttc aaagcacaaa cggaatttgg 1560
 ccatagcagg tgggtgtaacg ttgtctgtaa tcgtgtctcc agtagtagct gcagtgactg 1620
 taggtatcgg tgttcctatt atgttagctt atgtctatgg cgtagttcca atttctcttt 1680
 gtcgaagcgg aggttgtgga gtctcagcag gcaatggaaa aggagttagg attgaatttg 1740
 atgatgaaaa tgatataaat gttggtggaa ctaacacagc tgtagacaca acatcagtag 1800
 cagaagcaag acacaaccca agcatagggg agggaagtgt tgggtgggctg actggcagtt 1860

tgagtgc	caag	tggaagccac	atggatcgaa	taggagccat	ccgagacaac	ctgagtgaaa	1920
cggccagcac	catggcacta	gctggagcca	gtataacggg	gagtctgtca	ggaagtgcc		1980
tggtaaactg	ttttaacagg	ttggaagtac	aagcagatgt	acagaaagaa	cggtacagtc		2040
taagtggaga	atctggcaca	gtcagcttgg	gaacagttag	tgataatgcc	agcaccaaag		2100
caatggcagg	atccattctg	aattcctaca	tcccattgga	caaagaaggc	aacagtatgg		2160
aggtgcaagt	agatattgag	tcaaagccat	ccaaattcag	gcacaacagt	ggaagcagta		2220
gtgtggatga	tggcagtgcc	acccgaagtt	atgctggcgg	ttcatccagt	ggcttgccctg		2280
aaggtaaadc	tagtgccacc	aagtgggtcca	aagaagcaac	agcagggaaa	aatcaaaaa		2340
gtggtaaact	gaggaaaaag	ggtaacatga	agataaatga	gacgagagag	gacatggatg		2400
cacagttgtt	agaacaacaa	agcacgaact	caagtgaatt	tgaggctcca	tccctcagtg		2460
acagtatgcc	ttctgtagca	gattctcact	ctagtcattt	ttctgaattt	agttgttctg		2520
acctagaaaag	catgaaaact	tcttgtagtc	atggttccag	tgattatcac	acccgctttg		2580
ctactgttaa	cattcttcct	gaggtagaaa	atgaccgtct	ggaaaattcc	ccacatcagt		2640
gtagcatttc	tgtggttacc	caaactgctt	cctgttcaga	agtttcacag	ttgaatcata		2700
ttgctgaaga	acatggtaac	aatggaataa	aacctaatgt	tgatttatat	tttggcgatg		2760
cactaaaaga	aacaaataac	aaccactcac	atcagacaat	ggaattaaaa	gttgcaattc		2820
agactgaaat	ttaggcccac	aaatgctgca	gaataattac	cactgtacaa	ccgtgtttgg		2880
agctgggtga	actacatgtg	actacttaag	tttcagggtta	ccagcaaaaag	ccgggtttca		2940
ttatcataat	gcagatacat	tttctgtgtt	cagcaaggca	ttgtgtgtca	tgtggatctt		3000
agttaccaa	ctatgaagtg	aaggctttta	aagtgcatta	ttttaaggat	aataaatttg		3060
aagagcaaaag	catgttttgt	gtgtttgcc	caaaacattg	cttgaagcac	atacttagat		3120
agaaattgg	cttaatttat	ataatcaata	taaaatacta	atgcaattct	acagcattca		3180
aatgaagaaa	acttgaggct	ttagggataa	gtgggttagtg	atattttatt	gaaaccacta		3240
aagagataag	tttaaaagaa	ctgcataggt	tactctcagt	atatgatact	ctgtaacatt		3300
tctatttata	tcggcataaa	tttcattttt	tttcttcata	tgcaatgtgg	ttatataaag		3360
cttaatgcag	ctcatttgct	accatttgga	tacttagaca	ctttgagcaa	gattgtggca		3420
gtttttgcac	aactttgaaa	tagaaatacc	tggtactcta	tcttgtttat	tgttgatgcc		3480
atcttagagg	aaaaaatgta	aaggtaagta	attaagcata	tgacagcaac	aaataagata		3540
cataaaacta	caaaataaag	tcccattagg	ttataagtat	tacaaaaaat	ccacctttct		3600
ctaaggggaa	gtttgtaccc	cattgattct	tggtgccttt	gggatcgact	gggttttaat		3660
ggcctagtta	tttgaggatt	ttgctgtgtt	gttttccatg	tcttctctgg	tcaccttgga		3720

ttatatataa aaatacagga aatagataaa catgaatgtg attaataatg ctgaaaaagt	3780
attagcctac caaagacaca ctcaggcttt agtgaataac tttacataac ctcagttttt	3840
aacacatgca tatctttctcc aaccatgaaa tcaaagcacg gtgcagaact tgtaccaagt	3900
acaaaaggtc catgtatgat tagcattatt ttcttttgct tttgtttatg gacaatgttc	3960
agctgacata agcagaagtt ggccaaaata ctgcctgtac tgtaatttc ctgtataatt	4020
cacttaaata aaagcagggt aacctcaatg atagcagtta aaatgttcta tcttatgtat	4080
ttcttttaag tattaccatt atggtgctac tgagcgtttt cttttggtta aaagaaaaat	4140
gccatgggct gcagtccttct tccatcaatt tccctacca ggtccattaa tatgcttata	4200
acactagtgc cagttatttt atttgataat gcttatggta tttgtatatt tgtttgcatt	4260
ccaattttgt ttaataatga gtgtgtaaac tgcatacggt aaataaatgt aaataactaat	4320
gtactgctgc aaaaaaaaaa aaaaaaaaaa aaaaaaa	4357

<210> 511
 <211> 5476
 <212> DNA
 <213> Homo sapiens

<400> 511	
ggacggccat actattttta tcttgctttt tegtctctgc gcagtactgt ttaatatgag	60
tccagcgacg gctctgtgac tgttttctctc tggtaaaatc gctcttgctg cctcagcggt	120
tatctcaggt gcggaaggtc tcacagggtt ggaaatagcg ccggaaaaat cgatccgcgg	180
agtgagacgg ctcgtagcac actgcagggc ccggagggtca agatgggtggc tgtaaaacta	240
ggatccctga cgattgctta gcattaaggc ccgacatgga accgggggtgt gacgagttcc	300
tgcgcgccacc ggagtgcccc gtttttgagc ctagctgggc tgaattccaa gacccgcttg	360
gctacattgc gaaaataagg cccatagcag agaagtctgg catctgcaa atccgcccac	420
ccgcggtattg gcagcctcct tttgcagtag aagttgacaa tttcagattt actcctcgcg	480
tccaaaggct aaatgaactg gagggccaaa ctagagtga attgaactat ttggatcaga	540
ttgcaaaatt ctgggaaatt caaggctcct ctttaaagat tcccaatgtg gagcggaaga	600
tcttggaact ctacagcctt agtaagattg tgattgagga aggtggctat gaagccatct	660
gcaaggatcg tcggtgggct cgagttgccc agcgtctcca ctaccacca ggcaaaaaca	720
ttggctcct gctacgatca cattacgaac gcattattta cccctatgaa atgtttcagt	780
ctggagccaa ccatgtgcaa tgtaacacac acccgtttga caatgaggta aaagataagg	840
aatacaagcc ccacagcatc ccccttagac agtctgtgca gccttcaaag ttcagcagct	900
acagtcgacg ggcaaaaagg ctacagcctg atccagagcc tacagaggag gacattgaga	960

agcatccaga	gctaaagaag	ttacagatat	atggggccagg	tcccaaaatg	atgggcttgg	1020
gccttatggc	taaggataag	gataagactg	tgcataagaa	agtcacatgc	cccccaactg	1080
ttacggtgaa	ggatgagcaa	agtggaggtg	ggaacgtgtc	atcaacattg	ctcaagcagc	1140
acttgagcct	agagccctgc	actaagacaa	ccatgcaact	tcgaaagaat	cacagcagtg	1200
cccagtttat	tgactcatat	atttgccaag	tatgctcccg	tggggatgaa	gataataagc	1260
ttcttttctg	tgatggctgt	gatgacaatt	accacatctt	ctgcttggtt	ccaccccttc	1320
ctgaaatccc	cagaggcatc	tggaggtgcc	caaaatgtat	cttggcggag	tgtaaacagc	1380
ctcctgaagc	ttttggattt	gaacaggcta	cccaggagta	cagtttgcag	agttttggtg	1440
aaatggctga	ttccttcaag	tccgactact	tcaacatgcc	tgtacatatg	gtgcctacag	1500
aacttgtaga	gaaggaattc	tggaggctgg	tgagcagcat	tgaggaagac	gtgacagttg	1560
aatatggagc	tgatattcat	tccaaagaat	ttggcagtg	ctttcctgtc	agcaatagca	1620
aacaaaactt	atctcctgag	gagaaggagt	atgcgaccag	tggttggaa	ctgaatgtga	1680
tgccagtgtc	agatcagtct	gttctctgtc	acatcaatgc	agacatctca	ggcatgaagg	1740
tgccctggct	gtacgtgggc	atggttttct	cagcattttg	ttggcatatt	gaggatcact	1800
ggagttactc	tattaactat	ctgcattggg	gtgagccgaa	gacctggtat	ggtgtaccct	1860
ccctggcagc	agagcatttg	gaggaggtga	tgaagatgct	gacacctgag	ctgtttgata	1920
gccagcctga	tctcctacac	cagcttgtca	ctctcatgaa	tcccaacact	ttgatgtccc	1980
atggtgtgcc	agttgtccgc	acaaaccagt	gtgcagggga	gtttgtcatc	acttttcctc	2040
gtgcttacca	cagtggtttt	aaccaaggct	acaattttgc	tgaagctgtc	aacttttgta	2100
ctgctgactg	gctacctgct	ggacgccagt	gcattgaaca	ctaccgccgg	ctccggcgct	2160
attgtgtctt	ctcccacgag	gagctcatct	gcaagatggc	tgcttccca	gagacgttgg	2220
atctcaatct	agcagtagct	gtgcacaagg	agatgttcat	tatggttcag	gaggagcgac	2280
gtctacgaaa	ggcccttttg	gagaagggcg	tcacggaggc	tgagcgagag	gcttttgagc	2340
tgctcccaga	tgatgaacgc	cagtgcata	agtgaagac	cacgtgcttc	ttgtcagccc	2400
tggcctgcta	cgactgcca	gatggccttg	tatgcctttc	ccacatcaat	gacctctgca	2460
agtgtcttag	tagccgacag	tacctccggt	atcggtacac	cttggatgag	ctccccacca	2520
tgctgcataa	actgaagatt	cgggctgagt	cttttgacac	ctggggccaac	aaagtgcgag	2580
tggccttgga	ggtggaggat	ggccgtaa	gcagctttga	agagctaagg	gcactggagt	2640
ctgaggctcg	tgagaggagg	tttcctaata	gtgagctgct	tcagcgactg	aagaactgcc	2700
tgagtgaggt	ggaggcttgt	attgctcaag	tcctggggct	ggtcagtggt	caggtggcca	2760

ggatggacac	tccacagctg	actttgactg	aactccgggt	ccttcttgag	cagatgggca	2820
gcctgccctg	cgccatgcat	cagattgggg	atgtcaagga	tgtcctggaa	caggtggagg	2880
cctatcaagc	tgaggctcgt	gaggctctgg	ccacactgcc	ctctagtcca	gggctattgc	2940
ggtccctgtt	ggagaggggg	cagcagctgg	gtgtagaggt	gcctgaagcc	catcagcttc	3000
agcagcaggt	ggagcaggcg	caatggctag	atgaagtga	gcaggccctg	gcccttctg	3060
ctcacagggg	ctctctggtc	atcatgcagg	ggcttttggt	tatgggtgcc	aagatagcct	3120
ccagcccttc	tgtggacaag	gcccgggctg	agctgcaaga	actactgacc	attgcagagc	3180
gctgggaaga	aaaggctcat	ttctgcctgg	aggccaggca	gaagcatcca	ccagccacat	3240
tggagcccat	aattcgtgag	acagaaaaca	tccctgttca	cctgcctaac	atccaggctc	3300
tcaaagaagc	tctgactaag	gcacaagctt	ggattgctga	tgtggatgag	atccaaaatg	3360
gtgaccacta	cccctgtcta	gatgacttgg	agggcctggg	ggctgtgggc	cgggacctgc	3420
ctgtggggct	ggaagagctg	agacagctag	agctgcaggt	attgacagca	cattcctgga	3480
gagagaaggc	ctccaagacc	tttctcaaga	agaattcttg	ctacacactg	cttgagggtgc	3540
tttggccgtg	tgcagacgct	ggctcagaca	gcaccaagcg	tagccggtgg	atggagaagg	3600
cgctgggggt	gtaccagtgt	gacacagagc	tgctggggct	gtctgcacag	gacctcagag	3660
acccaggctc	tgtgattgtg	gccttcaagg	aaggggaaca	gaaggagaag	gagggtatcc	3720
tgcagctgcg	tgcaccaac	tcagccaagc	ccagtcact	ggcaccatcc	ctcatggcct	3780
cttctccaac	ttctatctgt	gtgtgtgggc	aggtgccagc	tggggtggga	cttctgcagt	3840
gtgacctgtg	tcaggactgg	ttccatgggc	agtgtgtgtc	agtgccccat	ctcctcacct	3900
ctccaaagcc	cagtctcact	tcattctccac	tgctagcctg	gtgggaatgg	gacacaaaat	3960
tcctgtgtcc	actgtgtatg	cgctcacgac	ggccacgcct	agagacaatc	ctagccttgc	4020
tggttgccct	gcagaggctg	cccgtgcggc	tgctgaggg	tgaggccctt	cagtgtctca	4080
cagagagggc	cattggctgg	caagaccgtg	ccagaaaggc	tctggccttt	gaagatgtga	4140
ctgctctgtt	gcgacagctg	gctgagcttc	gccaacagct	acaggccaaa	cccagaccag	4200
aggaggcctc	agtctacact	tcagccactg	cctgtgacct	tatcagagaa	ggcagtgcca	4260
acaatatattc	taagggtccaa	gggctgctgg	agaatggaga	cagtgtgacc	agtcctgaga	4320
acatggctcc	aggaaagggc	tctgacctgg	agctactgtc	ctcgtgttg	ccgcagttga	4380
ctggccctgt	gttgagctg	cctgaggcaa	tccgggctcc	cctggaggag	ctcatgatgg	4440
aagggggcct	gcttgagggtg	accctggatg	agaaccacag	catctggcag	ctgctgcagg	4500
ctggacagcc	tccagacctg	gacagaattc	gcacacttct	ggagctggaa	aaatttgaac	4560
atcaaggag	tcggacaagg	agccgggctc	tggagaggcg	acggcggcgg	cagaagggtg	4620

atcagggtag aaacgttgag aatcttggtc aacaggagct tcagtcaaaa agggctcgga 4680
 gctcagggat tatgtctcag gtgggccgag aagaagaaca ttatcaggag aaagcagacc 4740
 gtgaaaatat gttcctgaca ccttccacag accacagccc tttcttgaaa ggaaacaaaa 4800
 atagcttaca acacaaggat tcaggctctt cagctgcttg tccttcttta atgcctttgc 4860
 tacaactctc ctactctgat gagcaacagt tgtgacagtg gcaccaaagg tcatttgtgg 4920
 ttgtttttgt ttgtttgttt cttaaactct actatctcct ggcttgacc tcagaaggag 4980
 ctttttgcct atctataatt tttcactgcc aatttttgat atcctctctc cttagagttac 5040
 tgttaaaagg ttggttcgta aagtccacac cccgatgctc agaagtgtct tgccagcaac 5100
 attcctgcta gcatacagga gtgatttctt aaaccagttt cattctagtc tgaataggga 5160
 caaacaatc ttgaggaagc ccaagtgcgt acctttatct ttgccccac caccctcttt 5220
 ctgtacttca atttttgttt gttttttgtt tttttgtccc tgtcataaaa tattttggtg 5280
 cttcaaaact tgtaccttca ttgtacatcc ttttcttttc tccccttggg tcttattata 5340
 aaagaagaca atgtacgttg taattaccaa aaagaatagg gaaaaacaag aatttcatga 5400
 ctctacctgt ggtctatctt taatttcatt tcttttgta aaaataaaac aatgagtatg 5460
 tttgggaaaa aaaaaa 5476

<210> 512
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 512
 ttacgagcaa gagttcatca cggaccagcc gtgaggcagg gcacacgcgg gtcggcggcg 60
 atgatgtccc ccgcaagg gacaacgaaa acaagaggcc gccggccgcg gccacggatg 120
 cgtagcgggt acacaatgtt tggttgagcg ttttgtttca tcgtcgtggt ggttttgttg 180
 ttctctgtat atatcgtgtg gtggctttat cgtcatcatt attatcatca ttcttgtttc 240
 catcatcacg atgagttttc tccgttttcc tctctccag tggtagtcgt gtatcat 297

<210> 513
 <211> 2294
 <212> DNA
 <213> Homo sapiens

<400> 513
 aaaggaaaaa tccactgcac ctccacttgg tgactgacgc cgtggccaga aacatcctgg 60
 agacgtctct ccacacatgg atggtgcctg ctgtccgtgt cagcttttat catgccgacc 120
 agctcaagcc ccaggtctcc tggatcccca acaagcacta ctccggcctc tatgggctaa 180

tgaagctggt gctgcccagt gccttgccctg ctgagctggc ccgcgtcatt gtcctggaca	240
cggatgtcac cttcgcctct gacatctcgg agctctgggc cctctttgct cacttttctg	300
acacgcaggc gatcgggtctt gtggagaacc agagtgactg gtacctgggc aacctctgga	360
agaaccacag gccctggcct gccttgggcc ggggatttaa cacagggtgtg atcctgctgc	420
ggctggaccg gctccggcag gctggctggg agcagatgtg gaggtgaca gccaggcggg	480
agctccttag cctgcctgcc acctcactgg ctgaccaggt ctgaggaagc cttgccgggt	540
gggtgtggc aggtctgggg ctgggatgtg atgggtgtct ctgctcagga catcttcaac	600
gctgtgatca aggagcacc ggggctagtg cagcgtctgc cttgtgtctg gaatgtgcag	660
ctgtcagatc acacactggc cgagcgtgc tactctgagg cgtctgacct caaggatgc	720
cactggaact caccaaagaa gcttcgggtg aagaacaagc atgtggaatt cttccgcaat	780
ttctacctga ctttctgga gtacgatggg aacctgctgc ggagagagct ctttgtgtgc	840
cccagccagc cccacctgg tgctgagcag ttgcagcagg ccctggcaca actggacggg	900
gaagaccct gctttgagtt ccggcagcag cagctcactg tgcaccgtgt gcatgtcact	960
ttctgcccc atgaaccgcc accccccgg cctcacgatg tcacccttgt ggccagctg	1020
tccatggacc ggctgcagat gttggaagcc ctgtgcaggc actggcctgg ccccatgagc	1080
ctggccttgt acctgacaga cgcagaagct cagcagttcc tgcatttcgt cgaggcctca	1140
ccagtgcttg ctgcccggca ggacgtggcc taccatgtgg tgtaccgtga ggggcccta	1200
taccccgta accagcttcg caacgtggcc ttggcccagg ccctcacgcc ttacgtcttc	1260
ctcagtgaca ttgacttcct gcctgcctat tctctctacg actacctcag ggaggccagg	1320
gccggcttca acagcagctc cacctgtggg tgtgcccacc cgtcgcacatca ggcaagatgg	1380
cccatgggtg tctagtcctg tggctaattgc cctgatgagt gtcactggcc cagtcctaga	1440
tgccccgctc ttctccctg ctcatgggtg ctctcctca gggcctccat tgagcagctg	1500
gggctgggca gccggcgcaa ggcagcactg gtggtgccgg catttgagac cctgcgtac	1560
cgcttcagct tccccattc caagggtggag ctgttggcct tgctggatgc gggcactctc	1620
tacaccttca ggtaccacga gtggccccga ggccacgcac ccacagacta tgcccgtgg	1680
cgggaggctc agggcccgta ccgtgtgcaa tgggcggcca actatgaacc ctacgtgggtg	1740
gtgccacgag actgtccccg ctatgatcct cgctttgtgg gcttcggctg gaacaaagtg	1800
gccacattg tggagctgga tgcccaggaa tatgagctcc tgggtgctgc cgaggccttc	1860
accatccatc tgccccacgc tccaagcctg gacatctccc gcttcgctc cagccccacc	1920
tatcgtgact gcctccaggc cctcaaggac gaattccacc aggacttgtc ccgccaccat	1980
ggggctgctg ccctcaaata cctcccagcc ctgcagcagc cccagagccc tgcccagggc	2040

tgaggctggg ccggcgctgc cctcatctt agcattgggc agacaccagg gcaacctgcc	2100
ctccgccatc cctgctatctt aaattattta aggtctcttg gaagggctgg ggcagagcat	2160
ctgtgggggtg ggggtcttccc cttgctgcta ttgtatggct ggggactggg ctctctctgc	2220
cccagccagt ttggggctgg ttccccatc ttgaattgtt tatccctttt tcataattaa	2280
agttttaaaa catc	2294

<210> 514
 <211> 1542
 <212> DNA
 <213> Homo sapiens

<400> 514	
ctcctcttca ctcgcgagcc ctcggacatg gtggcccccg gctccgtgac cagccggctg	60
ggctcgggtat tcccccttct gctagtcttg gtggatctgc agtacgaagg tgctgaatgt	120
ggagtaaatg cagatgttga gaaacatctt gaattgggca agaaattact tgcagctgga	180
cagctagctg atgctttatc tcagtttcat gctgccgtag atggtgaccc tgataactat	240
attgcttatt atcggagggc tactgtcttt ttagctatgg gcaaatcaaa agctgcactt	300
cctgatttaa ctaaagtgat tcaattgaag atggacttca ctgcagcaag attacagaga	360
ggtcacttat tactcaaca aggaaaactt gatgaagcag aagatgattt taaaaaagtg	420
ctcaaatcta atccaagtga aaatgaagaa aaggaagcac agtctcaact tataaaatct	480
gatgaaatgc agcgtttgcg ttcacaagca cttaacgctt ttggaagtgg agattatact	540
gctgctatag ccttccttga taagatttta gaggtttgtg tttgggatgc agaactacgg	600
gaacttcgag ctgaatgttt tataaaagaa ggagaacctt ggaaagctat aagtgactta	660
aaagctgcgt caaagttgaa gaatgataat actgaagcgt tttataaaat aagcacactg	720
tactaccaac taggagacca cgaactgtcc ctcaagtgaag ttcgggaatg tcttaaactt	780
gaccaggatc ataaaaggtg ttttgccacac tataaacaag taaagaaact taataagctg	840
attgagtcag ctgaagagct catcagagat ggcagatata cagatgctac cagcaaatat	900
gaatctgtca tgaaaacaga gccaaagcatt gctgaatata cagttcgttc aaaggagagg	960
atttgccact gcttttctaa ggacgagaag cctggtgaag ctattagggg ttgttctgaa	1020
gttttacaga tggaacctga caatgtgaat gccctgaaag atcgagcaga ggcctatttg	1080
atagaggaaa tgtatgatga agctattcag gattatgaaa ctgctcagga acacaatgaa	1140
aatgatcagc agattcgaga aggtctagag aaagcacaaa gattattgaa acagtcgcag	1200
aaacgagatt attataaaat cttgggagta aaaagaaatg caaaaaagca agaaattatt	1260
aaagcatacc gaaaattagc actgcagtgg caccagata acttccagaa tgaagaagaa	1320

aagaaaaaag ctgagaaaaa gttcattgat atagcagctg ctaaagaagt cctctctgat 1380
 ccagaaatga gaaagaagtt tgacgacgga gaagatcctt tggatgcaga gagccagcaa 1440
 ggaggcggcg gcaacccttt ccacagaagc tggaactcat ggcaagggtt caatcccttc 1500
 agctcaggcg gaccatttag atttaaattc cacttcaatt aa 1542

<210> 515
 <211> 4346
 <212> DNA
 <213> Homo sapiens

<400> 515
 gcgtgggcg cagaaagcgg aacctcccgg gccagtcgcg cggtggtcac cctcttggga 60
 gctggggagg aggctgcgga ggctggcccg gctccttcgg gcgtcgcttc ccggaccggg 120
 tgcgcgggggt cccccggaac gtgtgttcca ggtcctcccg cgccagtgtt cgcagtcctc 180
 gcctggtcgc ggcggcgctt cgggcgccgg tgcaggcgcg cggcgcgag gcggggggcg 240
 ctgtggtctt ggcgcgggga ccgagccgct cggccagacc cgcctctttt ccctccccgc 300
 cagcccgccc gcctgcccgc cccccacgcy tcgtgtcgcc gggaagccgg gcggagacag 360
 agcgcttggg atccacggcg ctccgaccgc tgcctccaa cagcgagggg cagagcggt 420
 ggcgccgccc gagcgcgagg ccacgacctt ccctggccgc ctttgtctac tggcgtgcy 480
 gcccggaacc gccactctcc agggccgggg acgcgcccgc agctgtcggg gacagctcct 540
 ccctaccgca accctccggg gcggaggggg ggtcggggcg ggccctgcta gccgcgacc 600
 gcaagcccgc gctcgcggat cgatgcccc gcagcagggg gaccccgct tccccgaccg 660
 ctgcgaggcg cctccgggtc cgcgcgctcg ggagcgcggt ggacgcgggg gacgcggggc 720
 tggggagccg gggggccggg ggcgtgcggg ggggtgccag gggcgcgcg tcaagtgcgt 780
 gctggtcggc gacggcgcg tgggcaagac gagcctggtg gtgagctaca ccaccaacgg 840
 ctaccccacc gactacatcc ctactgcctt cgacaacttc tccgcggtgg tgtctgtgga 900
 tgggcggccc gtgagactcc aactctgtga cactgccgga caggatgaat ttgacaagct 960
 gaggcctctc tgctacacca acacagacat ctccctgctc tgcttcagtg tcgtgagccc 1020
 ctcatccttc cagaacgtca gtgagaaatg ggtgccggag attcgatgcc actgtcccaa 1080
 agcccccatc atcctagttg gaacgcagtc ggatctcaga gaagatgtca aagtcctcat 1140
 tgagttggac aaatgcaaag aaaagccagt gcctgaagag gcggctaagc tgtgcgccga 1200
 ggaaatcaaa gccgcctcct acatcgagtg ttcagccttg actcaaaaaa acctcaaaga 1260
 ggtctttgat gcagccatcg tcgctggcat tcaatactcg gacactcagc aacagccaaa 1320
 gaagtctaaa agcaggactc cagataaaat gaaaaacctc tccaagtcct ggtggaagaa 1380

gtactgctgt	ttcgtatgat	gctggcaaga	cacccagaaa	ggctattttc	agatgaaatc	1440
gatattagaa	gctatattag	ctgaaacaac	tccttttact	gcgtagaacc	tatatcgaga	1500
gtgtgtgtat	atgtattata	ggaggagctc	tcaattttat	gtattctttc	tgcctttaat	1560
tttcttgttt	gtttgagctt	agggatgaga	tacttatgca	agatattttt	gaagtaaatt	1620
aaacattttt	cacatctctg	gaaattttaga	gttctagacc	tctggttaat	ttatatctaa	1680
tatgaagaag	acacctctaa	tctggatggt	aagaatgaag	ttctgctaca	ttataatgta	1740
cagaagagca	aaagggagga	acactatggt	taacctctc	ttgattaagg	gctacttaat	1800
gcacagtgc	ttatgtacac	aggtaacca	tggtacaat	agttcttagc	tttgaaactc	1860
catgcaaacc	atgccttttt	tttaaggagc	aaaaatctga	gaaaaaaagt	gagagacctc	1920
tgctacaaa	acctcaaacc	agtcactttt	gtcaattgct	aatacccagt	tacttatgat	1980
ttaaaaacaa	ccaacagaaa	acatcccact	gactgtatgg	cactctgtag	tcaaaaaagg	2040
aaacttcctt	attgggactt	ttctttctta	gtccagttgt	gttgacacat	atgaacacag	2100
acaaagtgt	atgcggagga	aagcaagtgt	tggtcagtag	tttcatgttt	tagggagtgg	2160
ttcctgtgga	gatcagaaa	tgacatttgc	tttcggtact	gtaatacgtg	caccaaactg	2220
cctcaatcct	aggtaacgag	ggcaacaggg	agcacctgtc	tggtattgtt	ttaaacctcc	2280
atactcaagc	tgtctcttcg	gcaggaggt	gaatactctt	gaaaggccaa	cagcaagtgt	2340
ttgtgggaca	caacacagat	aattttttct	taagtcggcc	aagatgtact	tctctgtgtg	2400
cacacccatg	cacactcatg	cacacagata	cataggtctg	tatggctgta	tttgctgttg	2460
attcagactt	tcacaccatt	aatggggaaa	agcgtggcca	caaaaacaga	tgctaggaag	2520
cttggttcc	tcttcttggt	gacctttttt	tgaaccaaca	tcttttttat	tatattcaga	2580
gtatgttttt	aagtgtatct	taatataac	attttttagg	acatcttaaa	tctaaacaaa	2640
aaataaaatg	aacatctctt	gaaacctgtt	aaaacaacca	gttaaagcca	cagatggctt	2700
tcagggcagt	agcagcagag	gccagtggac	tctgaggact	cctgaggggc	ggggcggtga	2760
gccagccagg	tgcatgccgg	gaccatggcc	cccatacttg	gctgcttcc	gtgacagtga	2820
aatacatcct	tcaaggtggc	agctgttagg	gctgaatctt	ctggagaaaa	aggtgccatc	2880
tcaggagaat	agcttttact	ctggtaggaa	tgcttccgag	acaccacaag	gcagcctgaa	2940
cactcagttg	cagggtcggg	cttgcggtgg	gtgaccacga	gccaccaaag	tcacatccac	3000
aactaatgag	ggaaatctgt	aaagccagtt	agatagaaga	attttatttt	tctgtggggt	3060
ttgtgtgtgc	ttttttatgt	taaaaagaaa	tccagtttgt	gtttttctat	agaaaaagta	3120
aaagatcagg	ttatacttta	ggttaggggt	tctatttatt	cctgttagta	aataaaatta	3180

acaaatTTtct ttgtTTtaaca aaagattaat cTTtaaacca cTaaaataca tagactgatt 3240
 gattattcaa cacattggaa ttgatgtcgg tcatagTTtc ctgaagcatt tagttacaac 3300
 ctgaaggaat aaaatgattt gtggaaatgc tTaaaataga cctaactgaa tacagtctca 3360
 tcttgccgcg cctggcTTac ctatctgtgg aaagctaggc tTcccaggct gggctctgcc 3420
 tgtctggTgc ctggaggtgt gggagggaag atgagttatt taactggtaa gcgatttgaa 3480
 acactatttt tatattaaag taaatggcat ggagtatagt gcaaattcat tTTtaagata 3540
 gaacacaaaa cttgaaagaa gTTTTatgcg tgtgacagtg tatggggctg cagttggTct 3600
 ccctggaggg gacttccaca cctcctgcct ttaggcattg gtggaaagtg ctcagtgaag 3660
 tacacctgtg tggcccagtt ctgaaagcct tatacagttg aattTTaagt ggggttgata 3720
 acaccttgga ctgttagtgt taaaaatcta gtgggttgac cTTtaaatgc aacagttttt 3780
 aaaatatatt gctgcatttt atagaatagt aaaggtacga ttatacttga gattttcctc 3840
 catttttatt tcttcgtgaa catagagttt ggggccgaaa atgtttttaa agtatgtgtt 3900
 tgagttaa ataaagttgg tTcacttcaa agctaaaaaa ttgttaaact tgcagcttgg 3960
 tattgcagag aagattttat aagaattttg cTTtagagaa tgccactttg gctgaactac 4020
 aagtgtaggc caccattata atttataaat acagcatact tcaaaaactgt ttgttatctc 4080
 ttgttaccat gtatgtataa atggaccttt tataaccttg ttctctgctt gacagactca 4140
 agagaaacta cccaggtatt acacaagcca aaatgggagc aaggccttct ctccagacta 4200
 tcgtaacctg gtgccttacc aagttgtgct tttctgtttt caagtgtaaa tgatgttgag 4260
 cagaatgttg tacttgaaaa tgctataagt gagatgggtat gaaataaatt ctgacttatg 4320
 aataaaaaaa aaaaaaaaaa aaaaaa 4346

<210> 516
 <211> 2236
 <212> DNA
 <213> Homo sapiens

<400> 516
 cccgagtctc aggagcctgc cttacagcag gaggtgcagg cctcgtcacc tgcagaggtg 60
 cctgtgtctc agcctgaccc cttgccagct tctgaccaca gttacgagct gcgcaatggt 120
 gaagccattg ggcgggatcg ccggggggcg agggcccgga ggaacaacag tggagaagca 180
 ggcggggcag ccacacagga gctcttctgc tcagcctgtg accagctctt tctctcacc 240
 caccagctac agcagcacct gcggagtcac cgggagggcg tctttaagtg cccctgtgc 300
 agtcgtgtct tccctagccc tTccagtctg gaccagcacc ttggagacca tagcagcgag 360
 tcacacttcc tgtgtgtaga ctgtggcctg gccttcggca cagaggccct cctcctggcc 420

caccggcgag	cccacacccc	gaatcctctg	cattcatgtc	catgtgggaa	gacctttgtc	480
aaccttacca	agttccttta	tcaccggcgt	actcatgggg	taggggggtgt	ccctctgccc	540
acaacaccag	tcccaccaga	ggaacctgtc	attggtttcc	ctgagccagc	cccagcagag	600
actggagagc	cagaggcccc	tgagccccct	gtgtctgagg	agacctcagc	agggcccgt	660
gccccaggca	cctaccgctg	cctcctgtgc	agccgtgaat	ttggaaaggc	cttgacagctg	720
acccggcacc	aacgttttgt	gcatcggctg	gagcggcgcc	ataaatgcag	cattttgtggc	780
aagatgttca	agaagaagtc	tcacgtgcgt	aaccacctgc	gcacacacac	aggggagcgg	840
cccttcccct	gccctgactg	ctccaagccc	ttcaactcac	ctgccaacct	ggcccgccac	900
cggctcacac	acacaggaga	gcggccctac	cgggtgtggg	actgtggcaa	ggctttcacg	960
caaagctcca	cactgaggca	gcaccgcttg	gtgcatgccc	agcacttccc	ctaccgctgc	1020
caggaatgtg	gggtgcgttt	tcaccgtcct	taccgcctgc	tcatgcaccg	ctaccatcac	1080
acaggtgaat	accctacaa	gtgtcgcgag	tgcccccgct	ccttcttgt	gcgtcggctg	1140
ctggaggtgc	accagctcgt	ggtccatgcc	gggcgccagc	cccaccgctg	cccatcctgt	1200
ggggctgcct	tcccctcctc	actgcggctc	cgggagcacc	gctgtgcagc	cgctgctgcc	1260
caggccccac	ggcgctttga	gtgtggcacc	tgtggcaaga	aagtgggctc	agctgctcga	1320
ctgcaggcac	acgaggcggc	ccatgcagct	gctgggcctg	gagaggctct	ggctaaggag	1380
ccccctgccc	ctcgagcccc	acgggccact	cgtgcaccag	ttgcctctcc	agcagccctt	1440
ggaagcactg	ctacagcatc	ccctgcggcc	cctgcccgcc	gccggggctc	agagtgcagc	1500
gagtgcaga	agctgttcag	cacagagacg	tcactgcagg	tgcaccggcg	catccacaca	1560
ggtgagcggc	catacccatg	tccagactgt	ggcaaagcgt	tccgtcagag	taccacctg	1620
aaagaccacc	ggcgcttgca	cacaggtgag	cggccctttg	cctgtgaagt	gtgtggcaag	1680
gcctttgcca	tctccatgcg	cctggcagaa	catcgccgca	tccacacagg	cgaacgaccc	1740
tactcctgcc	ctgactgtgg	caagagctac	cgctccttct	ccaacctctg	gaagcaccgc	1800
aagacccatc	agcagcagca	tcaggcagct	gtgcggcagc	agctggcaga	ggcggaggct	1860
gccgttgccc	tggccgtcat	ggagactgct	gtggaggcgc	taccctcgtt	ggaagccatt	1920
gagatctacc	ctctggccga	ggctgagggg	gtccagatca	gtggctgact	ctgcccgact	1980
tcctcttttg	cacctccatt	ccctgttgct	gaaggccctc	cagcatcccc	ttaagcatct	2040
gtacatactg	tgtcccttcc	tcttcccatc	cccaccacct	tgtaagtctt	aaattggatt	2100
tattctctcg	tgaggggggt	gctctggggg	ccttgacaca	cataaagggt	cccccccacc	2160
ttccacctct	tagcactggg	gaccccaaaa	atgaaaccat	caataaagac	tgggttgcca	2220
aaaaaaaaaa	aaaaaa					2236

<210> 517
 <211> 1900
 <212> DNA
 <213> Homo sapiens

<400> 517
 acaactctca gaggagcatt gcccgtcaga cagcaactca gagaataacc agagaacaac 60
 cagattgaaa caatggagga tctttgtgtg gcaaacacac tctttgccct caattttattc 120
 aagcatcttg caaaagcaag cccacccag aacctcttcc tctcccatg gagcatctcg 180
 tccaccatgg ccatggtcta catgggctcc aggggcagca ccgaagacca gatggccaag 240
 gtgcttcagt ttaatgaagt gggagccaat gcagttaccc ccatgactcc agagaacttt 300
 accagctgtg ggttcatgca gcagatccag aagggtagtt atcctgatgc gattttgcag 360
 gcacaagctg cagataaaat ccattcatcc ttccgctctc tcagctctgc aatcaatgca 420
 tccacagggg attatttact ggaaagtgtc aataagctgt ttggtgagaa gtctgcgagc 480
 ttccgggaag aatatattcg actctgtcag aaatattact cctcagaacc ccaggcagta 540
 gacttcctag aatgtgcaga agaagctaga aaaaagatta attcctgggt caagactcaa 600
 accaaaggca aaatcccaaa cttgttacct gaaggttctg tagatgggga taccaggatg 660
 gtcttggtga atgctgtcta cttcaaagga aagtggaaaa ctccatttga gaagaaacta 720
 aatgggcttt atcctttccg tgtaaactcg gctcagcgca cacctgtaca gatgatgtac 780
 ttgcgtgaaa agctaaacat tggatacata gaagacctaa aggctcagat tctagaactc 840
 ccatatgctg gagatgttag catgttcttg ttgcttccag atgaaattgc cgatgtgtcc 900
 actggcttgg agctgctgga aagtgaata acctatgaca aactcaacaa gtggaccagc 960
 aaagacaaaa tggctgaaga tgaagttgag gtatacatat ccagttcaa attagaagag 1020
 cattatgaac tcagatccat tctgagaagc atgggcatgg aggacgcctt caacaaggga 1080
 cgggccaatt tctcagggat gtcggagagg aatgacctgt ttctttctga agtggtccac 1140
 caagccatgg tggatgtgaa tgaggagggc actgaagcag ccgctggcac aggaggtgtt 1200
 atgacaggga gaactggaca tggaggccca cagtttgtgg cagatcatcc ttttcttttt 1260
 cttattatgc ataagataac caactgcatt ttatttttctg gcagattttc ctcaccctaa 1320
 aactaagcgt gctgcttctg caaaagattt ttgtagatga gctgtgtgcc tcagaattgc 1380
 tatttcaa at tgcacaaaat ttagagatgt tttctacata tttctgctct tctgaacaac 1440
 ttctgctacc cactaaataa aaacacagaa ataattagac aattgtctat tataacatga 1500
 caaccctatt aatcatttgg tcttctaaaa tgggatcatg ccattttaga ttttccttac 1560
 tatcagttta tttttataac attaaacttt actttgttat ttattatttt atataatggt 1620

gagtttttaa attattgctc actgcctatt taatgtagct aataaagtta tagaagcaga 1680
 tgatctgtta atttcctatc taataaatgc ctttaattgt tctcataatg aagaataagt 1740
 aggtaccctc catgcccttc tgtaataaat atctggaaaa aacattaaac aataggcaaa 1800
 tatatgttat gtgcatttct agaaatacat aacacatata tatgtctgta tcttatattc 1860
 aattgcaagt atataataaa taaacctgct tccaaacaac 1900

<210> 518
 <211> 1812
 <212> DNA
 <213> Homo sapiens

<400> 518
 tagctaggca ggaagtcggc gcgggcggcg cggacagtat ctgtgggtac ccggagcacg 60
 gagatctcgc cggcttttacg ttcacctcgg tgtctgcagc accctccgct tctctccta 120
 ggcgacgaga cccagtggct agaagtccac catgtctatt ctcaagatcc atgccaggga 180
 gatctttgac tctcgcggga atcccactgt tgaggttgat ctcttcacct caaaaggctct 240
 cttcagagct gctgtgcccc gtggtgcttc aactggatc tatgaggccc tagagctccg 300
 ggacaatgat aagactcgtc atatggggaa ggggtgtctca aaggctgttg agcacatcaa 360
 taaaactatt gcgcctgccc tggtagcaa gaaactgaac gtcacagaac aagagaagat 420
 tgacaaaactg atgatcgaga tggatggaac agaaaataaa tctaagtttg gtgcgaacgc 480
 cattctgggg gtgtcccttg ccgtctgcaa agctggtgcc gttgagaagg ggggtccccct 540
 gtaccgccac atcgtgact tggctggcaa ctctgaagtc atcctgccag tcccggcgtt 600
 caatgtcatc aatggcgggt ctcatgctgg caacaagctg gccatgcagg agttcatgat 660
 cctcccagtc ggtgcagcaa acttcaggga agccatgcgc attggagcag aggtttacca 720
 caacctgaag aatgtcatca aggagaaata tgggaaagat gccaccaatg tgggggatga 780
 aggcggggtt gctcccaaca tcttgagaa taaagaaggc ctggagctgc tgaagactgc 840
 tattgggaaa gctggctaca ctgataaggt ggtcatcggc atggacgtag cggcctccga 900
 gttcttcagg tctgggaagt atgacctgga cttcaagtct cccgatgacc ccagcaggta 960
 catctcgctc gaccagctgg ctgacctgta caagtccttc atcaaggact acccagtgggt 1020
 gtctatcgaa gatccctttg accaggatga ctggggagct tggcagaagt tcacagccag 1080
 tgcaggaatc caggtagtgg gggatgatct cacagtgacc aacccaaaga ggatcgccaa 1140
 ggccgtgaac gagaagtcct gcaactgcct cctgctcaaa gtcaaccaga ttggctccgt 1200
 gaccgagtct cttcaggcgt gcaagctggc ccaggccaat gggtggggcg tcatggtgtc 1260
 tcatcgttcg ggggagactg aagatacctt catcgtgac ctggttggtg ggctgtgcac 1320

```

tgggcagatc aagactggtg ccccttgccg atctgagcgc ttggccaagt acaaccagct 1380
cctcagaatt gaagaggagc tgggcagcaa ggctaagttt gccggcagga acttcagaaa 1440
ccccttggcc aagtaagctg tgggcaggca agcccttcgg tcacctgttg gctacacaga 1500
cccctcccct cgtgtcagct caggcagctc gagggccccc accaacactt gcaggggtcc 1560
ctgctagtta gcgccccacc gccgtggagt tcgtaccgct tccttagaac ttctacagaa 1620
gccaagctcc ctggagccct gttggcagct ctagctttgc agtcgtgtaa ttggcccaag 1680
tcattgtttt tctcgctca ctttccacca agtgtctaga gtcattgtgag cctcgtgtca 1740
tctccggggg ggccacaggc tagatccccg gtggttttgt gctcaaaata aaaagcctca 1800
gtgacccatg ag 1812

```

```

<210> 519
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (113)..(113)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (270)..(270)
<223> n is a, c, g, t or u

```

```

<400> 519
tttttttttt ttttttggc cagatcaata gctaggtaga aaccttttca actgggacag 60
gagacaccat cctttgggtg ttgttctcta ctttcccatg caaaaggcag tanaagatgt 120
ggaggacaga gaggaagagc tgagagtcct ggaaagccaa aaggctacac acatcacata 180
aactgattgg cctcagggaa aagactgagg ttcaaagagg tgacagactc catcaagggtg 240
acatgactgg ctggttgccg gcagaagtan atgcagggtcc cagggtccagc tctggtctca 300
attacagccc aaagcctatc tccagccaca 330

```

```

<210> 520
<211> 348
<212> DNA
<213> Homo sapiens

```

```

<400> 520
acgtccctgg tagacggggg aggggggatct accagcccag ggatcgcgtc ttctgccgcc 60
acgctgcttc accgatatcc aataaaccca tcccctcgcc acgacgtctc cgcgtatctt 120
tgtagcctca agaatccgtc cccacgtcca cccatcccga gcactccaca cgccataaca 180

```

aaccacggac acgacaaatg catgcaaact tctcatTTat tgtgtctact actctgtgtt 240
 gctacagggg gtgaagaggg tgaaggcaaa gaaaaaaaaa aggaacaaaa taatagatta 300
 gcagaaggaa taatccgtgc gaccgagctt gtgcttcttt tcttataa 348

<210> 521
 <211> 862
 <212> DNA
 <213> Homo sapiens

<400> 521
 agcctcctgt caaggtagct agaggcctgg gaaaggagat agccttgctc cggccccctt 60
 gaccttcagc aaatcacttc tctccctgcg ctacacaga cacacacaca cacacgtaca 120
 tgcacacatt tttcctgtca ggTTaactta tttgtagggt ctgcattatt agaactttct 180
 agatatactc attccatctc cccctcattt ttttaatcag gtttccttgc ttttgccatt 240
 tttcttcctt cttttttcac tgatttatta tgagagtggg gctgaggtct gagctgagcc 300
 ttatcagact gagatgcagc tggttgtgtt gaggacttgt gtgggctgcc tgtccccggc 360
 agtcgctgat gcacatgaca tgattctcat ctgggtgcag aggtgggagg caccagggtg 420
 gcacccgtgg gggttagggc ttggaagagt ggcacaggac tgggcacgct cagtgaggct 480
 caggggaattc agactagcct cgattgtcac tccgagaaat gggcatggta ttgggggtcg 540
 ggggggcggt gcaaggagc cacatgagar actgtttggg agcttctggg gagccctgct 600
 agttgtctca gTkatgtctg tkggacctcc agtcccttga gacccacgt catgtagaga 660
 agttaacggc ccaagtgggtg ggcaggctgg cgggacctgg ggaacatcag gagaggagtt 720
 cagagcccac gtctactgcg gaaaagtcag gggaaactgc caaacaagg aaaatgcccc 780
 aaaggcatat atkctttagg gcctttggtc caaatggccc gggkgggcac tcttccagat 840
 agaccaggca actctccctc cc 862

<210> 522
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 522
 aggtgaatga tgactacaat aacattgcaa ctatttcttt cctggcatag ggaggtaata 60
 agaaactaaa tgatgcgatg gtacatgctt gtattatata gatgggttta ggaatctata 120
 aagtatggag gtaggaagac accatatgtc caggatcaaa acattcctca tattgaggta 180
 gtctagtga gctgtttcat gtagctgctt taggaagtgg ttttaaggaag cttactccca 240
 cttcaagtta agcaccaaag caatcactaa ttctggagca caggaagact gctatctcat 300

cattcacctt tgcag

315

<210> 523

<211> 972

<212> DNA

<213> Homo sapiens

<400> 523

atgacaccga cgacgacgac cgcggaactc acgacggagt ttgactacga tgaagacgcg	60
actccttggtg ttttcaccga cgtgcttaat cagtcaaagc cagttacgtt gtttctgtac	120
ggcgttgtct ttctcttcgg ttccatcggc aacttcttgg tgatcttcac catcacctgg	180
cgacgtcgga ttcaatgctc cggcgatggt tactttatca acctcgcggc cgccgatttg	240
cttttcggtt gtacactacc tctgtggatg caatacctcc tagatcacia ctccctagcc	300
agcgtgccgt gtacgttact cactgcctgt ttctacgtgg ctatgtttgc cagtttgtgt	360
tttatcacgg agattgcact cgatcgctac tacgctattg ttacatgag atatcggcct	420
gtaaaacagg cctgcctttt cagtattttt tgggtggatct ttgccgtgat catcgccatt	480
ccacacttta tgggtggtgac caaaaaagac aatcaatgta tgaccgacta cgactactta	540
gaggtcagtt acccgatcat cctcaacgta gaactcatgc ttggtgcttt cgtgatcccc	600
ctcagtggtta tcagctactg ctactaccgc atttccagaa tcgttgccgt gtctcagtcg	660
cgccacaaaag gtcgcattgt acgggtactt atageggctg tgcttgtctt tatcatcttt	720
tggctgccgt accacctaac gctgtttgtg gacacgttaa aactcctcaa atggatctcc	780
agcagctgcg agttcgaaag atcgctcaaa cgtgcgctca tcttgaccga gtcgctcgcc	840
ttttgtcact gttgtctcaa tccgctgctg tacgtcttcg tgggcaccaa gtttcgcaag	900
aactacactg tctgctggcc gagtttcgcc agcgactctt ttcccgcgat gtatcctggg	960
accacagcat ga	972

<210> 524

<211> 949

<212> DNA

<213> Homo sapiens

<400> 524

tttctcgcca cggcacaacg ccaccttggg caaacctaatt tccagtcttg gatgccacct	60
tgctgacgac aaggcacttc cttacaatga gcctggaatt ctaagcagca gcttcacaat	120
ctgcaattgc acgttttctgc cttttacaat aaagaaacac acactttcct ttcaccaccc	180
acacccacca aaaataccac cacactccaa cacacccccc gaagaaagcg agaaagccca	240
aaactggggc ccccaccaca accgcacccc cacgaatctg tcatacatcc acaagacacc	300
cggggccctct gagcaccac ggcgaaacgg cgccaagccg ccacccccct cccaggcggc	360

agcccccaca tgcgccacgt cgtacatcac gtcacccaac gccaccgacc tatgcgcaat 420
 cgcgcgcata gccccgtact cgggccagca gccccacccc agccagccac actgctcccc 480
 ctcgcacacc acaccaagat cgcgcgaccc aacgcaccca ctccgcacca caccacacac 540
 cccccccacc ccgctcgacc agcatgtgtc acaaccccggt acccgacccc tgagtaccac 600
 gaaacggaca ggctaacgac gcgaagtacc tcacccacccc gaccgaacgc gatccacggt 660
 cccgtaagcg ctaattccag actacacccc catagctcgc cgcaatgggtc tgcacgtcca 720
 cccacacca acagagatca ctacagaaat atgcctccaa ccccgccac gttaaactcc 780
 ccactccaca cgcagcaatg tcactcggca ccgcgccttt caggtgtga caggtcttct 840
 ccatagatgt cggatcggcc tccttactac ctccccctt acgaaagagt acacactcca 900
 caaccacaga cctccgccc aaggcgcgcc cgcgcgcccc gcgcacgtg 949

<210> 525
 <211> 2298
 <212> DNA
 <213> Homo sapiens

<400> 525
 aatagaagat cgctcgggaa ttcttactct cgataaagat tataacaaca taggaaaatt 60
 cttaaataga attttaggca tggaggtgca tcagcagaat gcgttatctc agtatcttgc 120
 ggacacactt actgcagttg ttcaaaatgc caaaaaaat ggaagatatg atatgggaat 180
 cttagatctt gggtctggag atgaaaaagt gcggaaaagt gatgttaaaa agtttctgac 240
 tccaggatat tcaacctctg gccacgtaga attatacaca attagtgtag agaggggaat 300
 gtcattgggag gaagctacca agatttgggc tgagctgaca ggaccagacg atggctttta 360
 cttgtcattg caaataagga acaacaagaa aactgccatc ttagttaaag aagtgaatcc 420
 taaaaagaaa cttttcttag tttatcgacc aaatactggg aagcagctca aattagaaat 480
 ttatgctgat ctaaaaaaga aatataagaa ggctgtctca gatgatgcc tgatgactg 540
 gttagatcag tataattcat ctgcagatac ttgtactcat gcttattggc gcggcaattg 600
 caaaaaagca agcttggggc tagtttgtga aataggtctt cggtgccgta catattatgt 660
 attatgtggt tcagtgtgta gtgtctggac aaaagttgag ggtgttctag catctgtcag 720
 tggcacaaac gtgaagatgc agatcgtgcg gctaagaacg gaagatgggc aacggattgt 780
 aggtttgatc attccggcaa attgtgtgtc tcctcttgta aatctcctat caacttcaga 840
 ccagtctcaa cagcttgcgg tccaacagaa acagctatgg caacagcatc accctcagag 900
 catcaccaac ttgagcaacg catgaagaac agacagggtt caacatggat ggatctgaaa 960
 tgctgttgaa gcatatcatt tgcataaaaa tcagggacag tttccaaaga attatatatt 1020

```

tttttcagtt gtgctctcta gttagttttt ttgggagtaa ggacaaacct ggaatagata 1080
gcaaaactga aaatcagcag tgctgatggg ggtacatatg tctttccttt agcttctccc 1140
ctgataattc ccatctgctt ttacttcggg tgagcagagg gggatgtgtg tgtgcgtgtg 1200
tgtcagtcctg tttgtgagtg tgttaaaggc tacagaccac agttgggtta aaatgcttgg 1260
aacttcccaa actggcttta ctttatgttt atacagtgtc caggggttaac gcagtacatc 1320
catgccattg ctgtgggagg tatccccgga tgcagtgtgt ttgagtctat aaatatagaa 1380
aatatatatt ggtttctttt tccaacttaa taggtttatt aaagcatgaa atgaaagggt 1440
gcatatcatg cattcagggt attttcta atttgttctg acagtgcag tctttggaag 1500
catgctgaaa caagattaac acaggagtcg agtaacagag agaaacattt gttagatgta 1560
cagcattggg tattgcattt ttatagtgtt tatacctggg tattgcttca aacctgcag 1620
acctctctt ccccttctcc ctgccctggg tttctgggtca aggtaatgaa tacatacatt 1680
tttctgtgat aaaactctta aaagttaatt ttaatgtatt aatagtattc ctaatgtgtg 1740
ctgcagaaat ggctatgagc ctcttaaatt tacatttgca acttaaagggt agttttagaa 1800
ggaagtacaa attggctttc atcttgcaaa caatcgtttt ttacttcatt atcttaattt 1860
gctttgtcac tcataaaaag gaaaccatac ctgagttgta gacaatgagg aaacacttga 1920
ggcttctgct gtgtgttctt ttgttattgt tgttattgtt gttactcagt aacttgaata 1980
ttgtttaatg tgttgtaaga cgtagagttt atctcaagct gttaaaaatg gtaatgtaca 2040
aatgtgaata gacacttata tatataatat gggtaagttt tgtttcgctt ataatagatg 2100
tttataaaaa caagtgaggg gacagttggg ctttttatct tttctttctt tttctttctt 2160
ttcttttttt cttttttttt tttttttttt tttttgcttc cacagggtgc actattgaaa 2220
aatcgagatt gtataaacct ggtaaaaagc tgcaagatgc caaaatcttg tagatgtcaa 2280
ataaaaagtt attatact 2298

```

```

<210> 526
<211> 618
<212> DNA
<213> Homo sapiens

```

```

<400> 526
cttttgctggg tggcggcgaa cgcggagagc acgccatgaa ggcctcgggc acgctacgag 60
agtacaaggt agtgggtcgc tgcctgcca ccccaaatg ccacacgccg cccctctacc 120
gcatgcgaat ctttgcgcct aatcatgtcg tcgccaagtc ccgcttctgg tactttgtat 180
ctcagttaaa gaagatgaag aagtcttcag gggagattgt ctactgtggg caggtgtttg 240
agaagtcccc cctgcgggtg aagaacttcg ggatctggct gcgctatgac tcccggagcg 300

```

gcacccacaa catgtaccgg gaataccggg acctgaccac cgcaggcgct gtcacccagt 360
gctaccgaga catgggtgcc cggcaccgcg cccgagccca ctccattcag atcatgaagg 420
tggaggagat cgcggccagc aagtgccgcc ggccggctgt caagcagttc cagcactcca 480
agatcaagtt cccgctgccc caccgggtcc tgcgccgtca gcacaagcca cgcttcacca 540
ccaagaggcc caacaccttc ttctaggtgc agggcctcgc tccgggtgtg ccccaaataa 600
actcaggaac gccccggt 618

<210> 527
<211> 2640
<212> DNA
<213> Homo sapiens

<400> 527
gggcggccaa cgtgggctcg ctcttcgacg acccagaaaa cctgcagaag aactggcttc 60
gggaatttta ccaggtcgtg cacacacaca agccgcactt catggccttg cactgtcagg 120
agtttggagg gaagaactac gaggcctcca tgtccacagt ggacaagttc gtcaaagaac 180
tattgtcgag tgatgcatg aaagaatata acagggctcg agtctacctg gatgaaaact 240
acaaatccca ggagcacttc acggcactag gaagctttta tttcttcat gagtctttaa 300
aaaacatcta ccagtttgac tttaaagcta agaagtatag aaaggctcgt ggcaaagaga 360
tctactcgga taccttagag agcacgccc tgctggagaa ggagaagttt cgcagactac 420
ttccccgagt gcaaatggtc aagaaaaggc ttcattccgga cgaggtggtg attgcagact 480
gtgcctttga cttggtgaat atccatcttt tccatgatgc ttccaatctg gtcgcctggg 540
aaacaagccc ttccgtgtac tcgggaatcc ggcacaaggc actgggctac gtgctggaca 600
gaatcattga tcagcgattc gagaaggttt cctactttgt atttggtgat ttcaacttcc 660
ggctggattc caagtctgtc gtggagacgc tctcagcaa accaccgatg cagacgggtcc 720
gggcccgcga caccaatgaa gtggtgaagc tcatatttcg tgagtcggac aacgaccgga 780
aggttatgct ccagttagaa aagaaactct tcgactactt caaccaggag gttttccgag 840
acaacaacgg caccgcgctc ttggagtttg acaaggagtt gtctgtcttt aaggacagac 900
tgtatgaact ggacatctcg ttccctccca gctacccgta cagtgaggac gcccgccagg 960
gtgagcagta catgaacacc cgggtgccag cctggtgtga ccgcatcctc atgtccccgt 1020
ctgccaagga gctggtgctg cggtcggaga gcgaggagaa ggttgtcacc tatgaccaca 1080
ttgggcccga cgtctgcatg ggagaccaca agcccgtgtt cctggccttc cgaatcatgc 1140
ccggggcagg taaacctcat gccatgtgc acaagtgttg tgcgtgcag tgacgtggtg 1200
ggaagagatg ccagcgccac gagaggacac ttcgtgagcc tccctgtagc cgtggaccga 1260

atacgcactc ttgaaagctg catcgagaac cgcaccaagc gccacctgct agacggccag 1320
 cccacactt cgcttcagcc tccggaccat tccggagcag cccacatac ctactgtct 1380
 cgtctgtcta tgtgacatta agtagaaata ttggtttttt ttttttttta aataagtcac 1440
 agtcctgttg tcaaaactct aatagacagc aaagagggtc tgtaccgtag acttcacagt 1500
 tttcagtttt taatgattgc cagtggaggg gcttcttcag cacagagacc cccactgtg 1560
 tccagggacc ccctctgcca ggtggaggtg tgtccagggg ctggggaagc cgagacgggc 1620
 actccctctg cgggccggca gcgtggccct gagcatggca agggggtctg tctctgccga 1680
 tgctccttcc gcggcactga ctctgcgccg tgtcacatgg tttttgaatc aactgcagc 1740
 tgctttccat ttttatatat atataaatat atataaatat atacttttta aaaataattt 1800
 ataaatctta ccaaaactta tgctaaatat actttccagt atgaacgcac aggagagtcc 1860
 catcagcagg cggcattgga gtctaggagc tcagctgtgt gtccatcaac acacaaattc 1920
 gtaaaaaaca cacatggcct cgccatcgtg ggtaaaatcg gcccacagc acgtctgcac 1980
 cagcgggccg ttactcccat gccgttcttc tgtgtaatat taagaactga atgtgaagtt 2040
 tatagctagc ctgggtgtac cttttaagaa ttttgtaaac cgtttgtctg tcttttgta 2100
 ctgttttatg gtgccaagta tcctacgtta caacaataat atcatgggag aaatagaaat 2160
 agcctagttt gttccaata gaaactgctt ttaacatggg ctgtatataa aaatattaaa 2220
 gagaaacaaa actgtacatt tcctcattgc tccgtacag acaacccatg tcataacctt 2280
 gttgcaaata tttttctcct atagcagtaa gtacagcatt agaaggatgat tagagagtct 2340
 gttgatgaaa cacaaatgta tgtttttatt gatttttact ttagaacact acagagtcc 2400
 tgggaccggg gtgaaggcat tagctgggtg tttgtgtggg ataaatacta ccactgcaag 2460
 tgactgctgt ccgctgcgga atctgttctt ggtggaagca caggcccggtg tcgctgctgt 2520
 gggtgcccgt gtccgcggtt caacacggag tccgccccgc gggtttcagc tgttggtcgt 2580
 tctgaggggc ctttggaagt gaccggtctg gttcctaagc aataaaattg accgtggtga 2640

<210> 528
 <211> 743
 <212> DNA
 <213> Homo sapiens

<400> 528
 agcgtgggta aaagcaaaag caacagctca agcagcctcc ttggagaaaa cctgaaaatt 60
 caacttggtt aagagaaggt cttgtacgtg cctaagttct agagcctcct gacgtgagca 120
 tggctgagag tgaggaccgc tccctgagga tcgttctggg agggaaaact ggaagtggga 180
 aaagtgcaac agcgaacacc atccttgag aggaaatctt tgattctaga attgctgccc 240


```

aagctgttac caagaactgt caaaaagcat cccgggaatg gcaggggaga gaccttcttg 300
ttgtagacac tccagggctc tttgacacca aggagagcct ggacaccacc tgcaaggaaa 360
tcagccgctg catcatctcc tectgcccag ggccccatgc tattgtccta gttctgctgc 420
tgggcccgtc cacagaggag gagcagaaaa ccgttgcatg gatcaaggct gtctttggga 480
agtcagccat gaagcacatg gtcactcttg tcaactcgaa agaagagttg gagggccaga 540
gcttccatga cttcatagca gatgcggatg tgggcctaaa aagcatcgtc aaggagtgcg 600
ggaaccgctg ctgtgccttt agcaacagca agaaaaccag taaggcagag aacgaaagtc 660
aagtgcagcg agttgggtgg aagctgatag agcaacacat ggtgcagtgc aacgaacggg 720
ccttactttt ctgatgacct ata 743

```

<210> 529
 <211> 346
 <212> DNA
 <213> Homo sapiens

```

<400> 529
cttttacctc gttgcactgc tgagagcaag atgggtcacc agcagctgta ctggagccac 60
ccgcgaaaat tcggccaggg ttctcgctct tgctgtgtct gttcaaaccg gcacggtctg 120
atccggaaat atggcctcaa tatgtgccgc cagtgtttcc gtcagtacgc gaaggatata 180
ggtttcatta agttggacta aatgctcttc cttcagagga ttatccgggg catctactca 240
atgaaaaacc atgataattc tttgtatata aaataaacat ttgaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 346

```

<210> 530
 <211> 397
 <212> DNA
 <213> Homo sapiens

```

<400> 530
ctatgctgcc tgggctagtc tcaaactcct tgctcctcaa gtcctccca catcagtctc 60
ccaaacagtt caacctacac gaacaggcaa ccatgcctgg tgtatttatt aaaatgtagc 120
tactagaata tttaaaattc acatgtgcct cacatattat ttcttagaga attgcctcat 180
ttttgaaatc tcaggctgcc tgctctaaaa cctggatgtg ccaggaaagt aaaaaatctg 240
aaatttttaa ataattgtca ttatattgct tccatgtatg aataacacat atatattttt 300
cataaataca aataatctta cacacaaatg aaaatgcaag tattttacag tcagggccag 360
tgtccagtgc atgaaggaag ccctgccaga aaaggat 397

```

<210> 531

<211> 1236
 <212> DNA
 <213> Homo sapiens

<400> 531
 ttactgagac ttgttcctca ggtcctggat ggctgcctcg atggccaggc tcaggggtgc 60
 caggtcttcg ggaggggtct cggtgggctg ctcaaactgc cccacggcgt aggccttcgc 120
 ggccgtctcg tagataggca gcatgaaccc accctgggtg gtggagaaga tgcgcaccat 180
 gacctgtttg ggaaactttt gcatcagggg caggcacagg ttgagagcgc ccaacaggtc 240
 cacgggggtg gcagcgtgga tgatcatgtt gcggtaatcg gaggaacggg ggcataattg 300
 gtgggtgtgc aattctttga ggctccacgc ggccttgacg ccttcgttac aagcatcggc 360
 tgtgcgctgc gccacttcgg gtggatgtgt cacgggcatg gtgtgctcca tgaggaaggg 420
 agtggagagg gccaggttgc acatggtgcc caggcgacac cgcaccgcat ccacctcact 480
 cttcacctca tgattgcggg tgtagataat ctggatgcc ttgttgttca cctgcatggt 540
 tttgcaggct ttgatggcct catctaacac ctggtgcata ctgggaatcg tgaagggcag 600
 gttcttgtag tcaagagagc gattggtgtt gcggaacatg cggctcacct cgtcaatctt 660
 gacgcgaccc cgccgagtct gcacgttggg tgtgcagaag ggggtgttct tatctttcat 720
 gatattgcgc accttctcgt tgtccaactc ggagatgcgt ttgctcttct tcttgcgggg 780
 tccggtgctc gccccgccgc tgctctgatg gccgcagctc agcagagagg aggaggccgc 840
 gccacaaaaa ccgccgcgcc catggtggct cgaggtcacg gatgctcctc cgccactgct 900
 gcatttcata tcttcggact cactctccga gtccgaagcc gaactgcagg aggaggaaga 960
 cgaagaggaa ctatcttcat cgggccggcc caagggatcg ggaagaggag ggtggttcat 1020
 ctgggagagc ggggtgcgtg gagaggtcac tcgcggcgtg ccgctgccgg tgggaagggga 1080
 agacgcggta gcaccgcggg ttctgacttc ttcaccctgt tcttcctcgc tatcagagat 1140
 cacgatacag ccggcggtat cgataatctt gttgcggtac tggatggtaa agtcgggctc 1200
 gggcttgatg tcttcctgtt tgatgagggg cagcat 1236

<210> 532
 <211> 2034
 <212> DNA
 <213> Homo sapiens

<400> 532
 aaaccttggc catggtcact tctcttttcc caatctctgt ggcagttttt gccctaataa 60
 ccctgcagggt tgggtactcag gacagtttta tagctgcagt gtatgaacat gctgtcattt 120
 tgccaaataa aacagaaaca ccagtttctc aggaggatgc cttgaatctc atgaacgaga 180
 atatagacat tctggagaca gcgatcaagc aggcagctga gcagggtgct cgaatcattg 240

tgactccaga agatgcactt tatggatgga aatttaccag ggaaactggtt ttcccttatac	300
tggaggatat cccagaccct caggtgaact ggattccgtg tcaagacccc cacagatttg	360
gtcacacacc agtacaagca agactcagct gcctggccaa ggacaactct atctatgtct	420
tggcaaattt gggggacaaa aagccatgta attcccgtga ctccacatgt cctcctaatag	480
gctactttca atacaatacc aatgtggtgt ataatacaga aggaaaactc gtggcacggt	540
accataagta ccacctgtac tctgagcctc agtttaatgt ccctgaaaag cgggagttgg	600
tgactttcaa caccgcattt ggaaggtttg gcattttcac gtgctttgat atattcttct	660
atgatcctgg tgttaccctg gtgaaagatt tccatgtgga caccatactg tttcccacag	720
cttgatgaa cgttttgccc cttttgacag ctattgaatt ccattcagct tgggcaatgg	780
gaatgggagt taatcttctt gtggccaaca cacatcatgt cagcctaaat atgacaggaa	840
gtggtattta tgcaccaaag ggtcccaaag tgtatcatta tgacatgaag acagagttgg	900
gaaaacttct cctttcagag gtggattcac atcccctatc ctgcttgcc taccacaacag	960
ctgttaattg gaatgcctac gccaccacca tcaaaccatt tccagtacag aaaaacactt	1020
tcaggggatt tatttccagg gatgggttca acttcacaga actttttgaa aatgcaggaa	1080
accttacagt ctgtcaaaaag gagctttgct gtcatttaag ctacagaatg ttacaaaaag	1140
aagagaatga agtatacggt ctaggagctt ttacaggatt acatggccga aggagaagag	1200
agtactggca ggtctgcaca atgctgaagt gcaaaactac taatttgaca acttgtggac	1260
ggccagtaga aactgcttct acaagatttg aaatgttctc cctcagtggc acatttgga	1320
cagagtatgt ttttccctgaa gtgctactta ccgaaattca tctgtcacct ggaaaatttg	1380
aggtgctgaa agatgggctt ttggtaaaca agaatggatc atctgggcct atactaacag	1440
tgtcactctt tgggagggtg tacacaaagg actcacttta cagctcatgt gggaccagca	1500
attcagcaat aacttacctg ctaatatcca tattattaat gatcatagct ttgcaaaata	1560
ttgtaatggt atagggcgct tctttatcac tcagcttctg catcatatgc ttggctgaat	1620
gtgtttatcg gcttcccaag tttactaaga aactttgaag ggctatttca gtagtataga	1680
ccagtgagtc ctaaataattt tttctcatca ataattattt ttttaagtatt atgataatgt	1740
tgtccatttt tttggctact ctgaaatggt gcagtgtgga acaatggaaa gagcctgggt	1800
gtttgggtca gataaatgaa gatcaaaactc cagctccagc ctcatctgct tgagactttg	1860
tgtgtatggg ggacttgat gtatgggagt gaggagtttc agggccattg caaacatagc	1920
tgtgcccttg aagagaatag taatgatggg aatttagagg tttatgactg aattcccttt	1980
gacattaaag actatttgaa ttcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa	2034

<210> 533
 <211> 4500
 <212> DNA
 <213> Homo sapiens

<400> 533
 cgggtggttg agtggaagcg gtcgccatgt ccgcggggag cgcgacacat cctggagctg 60
 gcgggcgccg cagcaaattg gaccaaccag ctccagcccc acttctcttc ctcccgccag 120
 cggccccagg tggggaggtc accagcagtg ggggaagtcc tgggggcacc acagctgctc 180
 cttcaggagc cttggatgct gctgctgctg tggctgccaa gattaatgcc atgctcatgg 240
 caaaagggaa gctgaaacca actcagaatg cttctgagaa gcttcaggct cctggcaaag 300
 gcctaactag caataaaagc aaggatgacc tgggtgtagc tgaagtagaa attaattgatg 360
 tgcctctcac atgtaggaac ttgctgactc gaggacagac tcaagacgag atcagccgac 420
 ttagtggggc tgcagtatca actcgaggga ggttcatgac aactgaggaa aaagccaaag 480
 tgggaccagg ggatcgtcca ttatatcttc atgttcaggg ccagacacgg gaattagtgg 540
 acagagctgt aaaccggatc aaagaaatta tcaccaatgg agtggtaaaa gctgccacag 600
 gaacaagtcc aacttttaat ggtgcaacag taactgtcta tcaccagcca gcacccatcg 660
 ctcaattgtc tccagctgtt agccagaagc ctcccttcca gtcagggatg cattatgttc 720
 aagataaatt atttgtgggt ctagaacatg ctgtaccac ttttaatgtc aaggagaagg 780
 tggaaaggcc aggctgctcc tatttgcagc acattcagat tgaaacaggt gccaaagtct 840
 tcctgcgggg caaagggttca ggctgcattg agccagcatc tggccgagaa gcttttgaac 900
 ctatgtatat ttacatcagt caccctaaac cagaaggcct ggctgctgcc aagaagcttt 960
 gtgagaatct tttgcaaaca gttcatgctg aatactctag atttgtgaat cagattaata 1020
 ctgctgtacc ttaccaggc tatacacaac cctctgctat aagtagtgtc cctcctcaac 1080
 caccatatta tccatccaat ggctatcagt ctggttacc tgttgttccc cctcctcagc 1140
 agccagttca acctccctac ggagtaccaa gcatagtgcc accagctgtt tcattagcac 1200
 ctggagtctt gccggcatta cctactggag tcccacctgt gccaacacaa taccgataa 1260
 cacaagtgca gcctccagct agcactggac agagtccgat ggggtggtcct tttattcctg 1320
 ctgctcctgt caaaactgcc ttgcctgctg gccccagcc ccagccccag cccagcccc 1380
 cactcccaag tcagccccag gcacagaaga gacgattcac agaggagcta ccagatgaac 1440
 gggaaatctgg actgcttgga taccagcatg gaccattca tatgactaat ttaggtacag 1500
 gcttctccag tcagaatgag attgaagggtg caggatcgaa gccagcaagt tcctcaggca 1560
 aagagagaga gagggacagg cagttgatgc ctccaccagc ctttccagtg actggaataa 1620

aaacagagtc cgatgaaagg aatgggtctg ggaccttaac agggagccat ggtgagtgtg	1680
atatagctgg gggaacaggg gagtggctaa gactgggtcta aagctattag ttttctcagc	1740
cgggcgagtc gggtcacgcc tgtaatccca gcactttggg aggccgaggt gggcagatca	1800
cctaagggtca ggagttcaag accagcttgg ccaacatagt gaaatcccat ctctactaaa	1860
aatacaaaaa ctagcgggca tgggtgggtgg cgctgtaat tccagctact caggggggtg	1920
aggcaggaga atcgcttcaa cctgggaggg agagggttgca gtgagccaag atcagaccac	1980
tgccctccag cctgggcaat agagcaagac tccatctcat aaataaataa atacataaat	2040
aaagctatta attttctaac ctgatgttca ttcagggtgtt taatccaacc tctataatct	2100
gttggccagt gaaaataactt ttgggctggg cacgggtggct cacgcctgta atcccagcac	2160
tttgggaggg caaggtgggg ggataacctg aggtcaggag tttgagacca gcgtgggctaa	2220
cacgggtgaaa ccccgctctct actaaaaata gaaaaattaa gctgggcatg gtgggtgcag	2280
cctgtaattc cagcggtctg gaaggctgag gcaggagaat cacttgaact tgggaggtgg	2340
agggtgcagt gggccgagat cacaccactg cattccagcc tgggcactag agtgagactc	2400
tgtctcaaaa aaaaagaaa agaaagagaa aatagtttct aaaaaattgt atacagacaa	2460
ccttttatatt ccaacaaacg tgtgccgaga gagagagaga gaaaatagtt ttaaaaaaat	2520
tgtatacaga caaccttttg tttccaacca acgtgtatct agaaaagagt tagtcgactt	2580
attttataca tagcatcagt gaatagtaat gagtggtagg tcatttcaaa atcctgttgc	2640
ctatattatg tgaataccag gaggtcatct gatacggact taataaagggt tgattttgct	2700
ttatattggg agctgagcca cacctccctt tataactcta ttggtcagta atggtcagtt	2760
tgtggctggt agggaaatgt tgccttttag cattccagaa ctctaaatcc tgtagaggta	2820
catgggatat tttattcttt gcctgtactc ataaaaatga acagaagaaa atacgttttt	2880
ttcttttctt aacttctttt cttttaactc tttaaaagggt gaaatatcag ccctcaagag	2940
actcacttgc taactttcct ttttttcttt ttttttcttt tttttgtgtt tcttttttct	3000
ttctctgttt tcttacatgg ttctgggtga ttcacatttg ctgatgctgg tgctgttttt	3060
cgtgtgatct tcaacgtttt tgggtgacca ttgaccctgt gacctcaaaa tgggtgtccaa	3120
ctaaccactt aaaattaaca tctttttttt aattaacgaa tttatgggtat tttttttttt	3180
cccttggcgg ggatgggggt ggggttggtt tttctctatt ctagattatc cagccaagaa	3240
gatgaaaact acagagaagg gatttggtt ggtggcttat gctgcagatt catctgatga	3300
agaggaggaa catggaggtc ataaaaatgc aagtagtttt ccacagggct ggagtttggg	3360
ataccaatat ccttcatcac aaccacgagc taaacaacag atgccattct ggatggctcc	3420
ctaggaaaca gtggaacaga gttttgacct tcagtgactc ttcttagcaa taatgcatgc	3480

atttgattta acaagactct ggggcctgtg ctgggaacca tctggacctt tgcagaagtt 3540
 agagattcag tgccccctt tcttaaagg gttccttaac aaccacaaaa atccttattt 3600
 ctgcagtggc atagaatctg ttaaaattta attagaatca caaatttatc tcagaagctt 3660
 ttttaacagtt ggtgaaatgt gcttgtccaa caaagcatcc taacaggggc gttcccatatc 3720
 acatttgacc tggtcagcct tttccagggtg aatagcccca gttctgacat aaagaaagtt 3780
 ttatttgtat ttactactg tttggtcaat tttgatatat aactgggttac aaacagagcc 3840
 ttactattta ttagtgggga aatgatttta agaccgtcct tttcagtatt taattctgac 3900
 agatctgcat ccctgttttg ttttggatta tttctgtttt ggaaaatgct gtctcattta 3960
 aaactgttgg atatatgctg atcctggata ggaaaatgaa attatttttt cattgtgttt 4020
 ttttaattggg gtgatccaaa gctggcacct tcaggcacat tggcttcata gccattactg 4080
 tttttattgc ccttctaaga tctgtcttc agctgggtca gagaaaactt cttgactaaa 4140
 actggtcaga actcatcaca gaaatgaaat acagtgggtct ctctctcca gaactgggtg 4200
 cagctaaaac agagagatct gactgctggc tataggattt tggacttaat gactgaaatt 4260
 gcaaattgtc ctttttcttg gcattacaga ttttgccaaa ataacttttt gtatcaaata 4320
 ttgatgtgtg aaagtgaagg agctagtctg ctgaaccagg aatagtttga gatattgaac 4380
 tgtcattttt gcacatttga atactttgca ggctggcttt gtataaactt atcctctggt 4440
 ttcttatatg ttgtaaatat ttagaccata atttcattat aaataaatct ataaatattc 4500

<210> 534
 <211> 594
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (15)..(64)
 <223> n is a, c, g, t or u

<400> 534
 ggggacatta gtttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnntgtgtc tcatgaatag gaaagaaagc agatgtaaag agttacataa aagcaaacag 120
 cttgctctgg tttctgggtc taacaattac gacttaaaca atggagccaa agaaaaatac 180
 attagatgat tctcaacctg gaaagcaaga ctgcaaatta taaccacaaa aacaaagatc 240
 tactgtctcc cagataccgg aaatggtaac ccggatattt gaggcttcca aggcaggaag 300
 ataaaggaga atcagacccc tgagcagggg ctctggagca gcactccagg accctgccta 360
 gagactaagc ctcagggtga gcagtgggt agacatctgc tcacaccagt ttcctctcac 420

agatgtacac agattgggggt gttgggtgag ggctgatgg gggaaaggaa agagagaact 480
 gctataggtg aatctctctg tggttgttg tgggaccctg cgccctttaa attagggcat 540
 attttacaaa aacttattat tctacacagc ccttcttggg cctttacaga acga 594

<210> 535
 <211> 1721
 <212> DNA
 <213> Homo sapiens

<400> 535
 cgggtgtaga tttcacaacc cagggggcgg agccaggatg atgaccccg cccctcccta 60
 aataattctc ccgggaggga cacggaagca gcaaccggga tgggacgggg agagaggagg 120
 cactactggg gacctaagct ggttctcaaa tgctctcct tttcccctcc aagcctccca 180
 ggcttctat ggtccctaag tcccgggttc tcagcgtgac attccagagc aaacacagct 240
 cccattact ctataccagg cactggcatg gattaattta tctaatacaca acatcccagt 300
 aagatatgcc ctgcctctcc tgctcacact ctatggctgg cattcacctg tggggccagg 360
 tcgaaactcc tggcttgagg gtcaatgcct tactggagct gctctgctaa cctcctgctg 420
 cttcctctcg gacctgatt cagccatcat gaatttacca gcatagagca tgtgattcca 480
 cacctccaag cttttgcaca tgctgctccc tgccagcgac cctcttttgg ccggcctacc 540
 ccgggaccct gactactctg tgcctgcct ctactcacct ccctcacct ccagcatgtg 600
 tttgcctgct aacatgaagt gtgacaagta ctggggctct tcctcggaca aggctctgga 660
 agcgtacagc tactgggtcc aggactccag agccagagac cttgggatgc cctgcttctg 720
 gggacacagt gaggactgca gactgcaggc caggggtggg ctcagggcct tcgccacatg 780
 aggctgcccc ctccccagt ccagacctgc agaagcagtg ctgtaatgac caggacattt 840
 tgaagaggca tcacaacgta tctaagaagc ccttgagagc cagctcttcc aaagtcaaag 900
 ccaagaccat tgtgatgatt cccgactccc agaagctcct gcgatgtgaa cttgagtcac 960
 tcaagagcca gttacaggcc cagaccaagg ctttcgagtt cctgaaccac tcagtgacca 1020
 tggttgagaa ggagagctgc ttgcagcaaa tcaagattca gcagcttgaa gaggtgctga 1080
 gccccacagg ccgccaggga gagaaggagg agcacaagtg gggcatggag cagggccggc 1140
 aggagctgta tggggccctg acccaaggcc ttcaggggct ggagaagacc ctgcgtgaca 1200
 gtgaggagat gcagcgggccc cgcaccactc gctgcctgca gctgctggcc caggagatcc 1260
 gggacagcaa gaagtctctg tgggaggagc tggaactggt gcgggaggag gtgaccttca 1320
 tctatcagaa gtcceaagcg caggaggatg agatctcaga gaacttggtg aacattcaga 1380
 aaatgcagaa aacgcagggtg aaatgccgca aaatcctgac caagatgaag cagcagggtc 1440

atgagacagc cgctgtccg gagactgaag agataccgca gggagccagt ggctgctgga 1500
 aggatgacct ccagaaggaa ctgagtata tatggctctgc tgtgcacgtg ctgcagaact 1560
 ccatagacag cctcactttg tgctcggggg cctgtcccaa ggcctcgagc ctaagaggcc 1620
 acaaggggca ccagtgcctg agccctccac tcccctcctg ggactctgac tccgactgtg 1680
 accaggacct ctcccagcca cctttcagca agagcggccg c 1721

<210> 536
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 536
 cgctgagggt cccccaggag ttcaaggctg tggtagagcta tgattgtacc actgcactcg 60
 tgcttgagca acagagcaag accgcatctc aaaaacacaa aaacaacacc tatcctcttg 120
 ctttgctgcc agaaaagaca aaaagcacia ataaacaagc acctgacagc gttatagggtg 180
 gagaccgagt tctatgagtg cagtaaagtg gggcacggca cagagatgga gctgtactct 240
 agacaggggtg ttctgaatca ggaatggact tacaaaacat ctgcagtcag aaattcacat 300
 acagactata gtagatcaaa agctcatttt aaactatcaa tgaggaaaaa agcaattcat 360
 ttacataaca ttctctttcc aactcaaaca tcagggtacaa attgctttct ttagcatat 420
 gccagaaatc tgtcattaca caatagctta gcaagtgtga cacaagatac tgccactttc 480
 tctacacaaa gaccaccca aacaccagct ttgtttaaaa cattac 526

<210> 537
 <211> 1837
 <212> DNA
 <213> Homo sapiens

<400> 537
 tttttcgcaa cgggtttgcc gccagaacac aggtgtcgtg aaaactaccc ctaaaagcca 60
 aaatgggaaa ggaaaagact catatcaaca ttgtcgtcat tggacacgta gattcgggca 120
 agtccaccac tactggccat ctgatctata aatgcgggtg catcgacaaa agaaccattg 180
 aaaaatttga gaaggaggct gctgagatgg gaaagggtc cttcaagtat gcctgggtct 240
 tggataaact gaaagctgag cgtgaacgtg gtatcaccat tgatatctcc ttgtggaaat 300
 ttgagaccag caagtactat gtgactatca ttgatgcccc aggacacaga gactttatca 360
 aaaacatgat tacagggaca tctcaggctg actgtgctgt cctgattggt gctgctgggtg 420
 ttgggtgaatt tgaagctggg atctccaaga atgggcagac ccgagagcat gcccttctgg 480
 cttacacact ggggtgtgaaa caactaattg tcggtgttaa caaatggat tccactgagc 540

caccctacag ccagaagaga tatgaggaaa ttgttaagga agtcagcact tacattaaga	600
aaattggcta caaccccgac acagtagcat ttgtgccaat ttctgggttg aatggtgaca	660
acatgctgga gccaaagtgt aacatgcctt ggttcaaggg atggaaagtc acccgtaagg	720
atggcaatgc cagtggaaacc acgctgcttg aggctctgga ctgcatacta ccaccaactc	780
gtccaactga caagcccttg cgctgcctc tccaggatgt ctacaaaatt ggtggtattg	840
gtactgttcc tgttggccga gtggagactg gtgttctcaa acccggtatg gtggtcacct	900
ttgctccagt caacgttaca acggaagtaa aatctgtcga aatgcacat gaagctttga	960
gtgaagctct tcctggggac aatgtgggct tcaatgtcaa gaatgtgtct gtcaaggatg	1020
ttcgtcgtgg caacgttgct ggtgacagca aaaatgaccc accaatggaa gcagctggct	1080
tcactgctca ggtgattatc ctgaaccatc caggccaaat aagcgccggc tatgcccctg	1140
tattggattg ccacacggct cacattgcat gcaagtttgc tgagctgaag gaaaagattg	1200
atcgccgttc tggtaaaaag ctggaagatg gccctaaatt cttgaagtct ggtgatgctg	1260
ccattgttga tatggttcct ggcaagccca tgtgtgttga gagcttctca gactatccac	1320
ctttgggtcg ctttgcgtgt cgtgatatga gacagacagt tgcggtgggt gtcatcaaag	1380
cagtggacaa gaaggctgct ggagctggca aggtcaccaa gtctgcccag aaagctcaga	1440
aggctaaatg aatattatcc ctaatacctg ccaccccact cttaatcagt ggtggaagaa	1500
cggctctcaga actgtttgtt tcaattggcc atttaagttt agtagtaaaa gactgggttaa	1560
tgataacaat gcatacgtaaa accttcagaa ggaaaggaga atgttttgtg gaccactttg	1620
gttttctttt ttgcgtgtgg cagttttaag ttattagttt ttaaaatcag tactttttaa	1680
tggaaacaac ttgacaaaaa atttgtcaca gaattttgag acccattaaa aaagttaaat	1740
gagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa	1837

<210> 538

<211> 1697

<212> DNA

<213> Homo sapiens

<400> 538

ggatcgaggg gactctgacc acagcctgtg gctgggaagg gagacagagg cggcggcggc	60
tcaggggaaa cgaggctgca gtggtggtag taggaagatg tcgggagagg acgagcaaca	120
ggagcaaact atcgtgagg acctggtcgt gaccaagtat aagatggggg gcgacatcgc	180
caacagggtg cttcggctct tgggtgaagc atctagctca ggtgtgtcgg tactcagcct	240
gtgtgagaaa ggtgatgcca tgattatgga agaaacaggg aaaatcttca agaaagaaaa	300

ggaaatgaag aaaggtattg cttttccac cagcatttcg gtaaataact gtgtatgtca 360
 cttctcccct ttgaagagcg accaggatta tattctcaag gaaggtgact tggtaaaaat 420
 tgaccttggg gtccatgtgg atggcttcat cgctaatagt gctcacactt ttgtggttga 480
 tgtagctcag gggacccaag taacagggag gaaagcagat gttattaagg cagctcacct 540
 ttgtgctgaa gctgcctac gcctgggtcaa acctggaaat cagaacacac aagtgcaga 600
 agcctggaac aaagttgccc actcatttaa ctgcacgcca atagaaggta tgctgtcaca 660
 ccagttgaag cagcatgtca tcgatggaga aaaaaccatt atccagaatc ccacagacca 720
 gcagaagaag gaccatgaaa aagctgaatt tgaggtacat gaagtatatg ctgtggatgt 780
 tctcgtcagc tcaggagagg gcaaggccaa ggatgcagga cagagaacca ctatttacia 840
 acgagacccc tctaaacagt atggactgaa aatgaaaact tcacgtgcct tcttcagtga 900
 ggtggaaagg cgttttgatg ccatgccgtt tactttaaga gcatttgaag atgagaagaa 960
 ggctcggatg ggtgtggtgg agtgcgcaa acatgaactg ctgcaacat ttaatgttct 1020
 ctatgagaag gagggatgaat ttgttgccca gtttaaattt acagttctgc tcatgcccaa 1080
 tggcccatg cggataacca gtggctcctt cgagcctgac ctctacaagt ctgagatgga 1140
 ggtccaggat gcagagctaa aggccctcct ccagagttct gcaagtcgaa aaaccagaa 1200
 aaagaaaaaa aagaaggcct ccaagactgc agagaatccc accagtgggg aaacattaga 1260
 agaaaatgaa gctggggact gaggtgcgtc ccatctcccc agcttgctgc tctgcctca 1320
 tccccctccc accaaacccc agactctgtg aagtgcagtt cttctccacc taggaccgcc 1380
 agcagagcgg ggggatctcc ctgccccac ccagttccc caaccactc ccttccaaca 1440
 acaaccagct ccaactgact ctggctcttg gaggtgaggc ttcccaacca cggaagacta 1500
 ctttaaacga aaaaaagaaa ttgaataata aaatcaggag tcaaaattca tcgtcttcaa 1560
 ggccccctct tctagccttt tctactactc tctgcttggg caaggtttgt gccccactac 1620
 agaacagggc taaattagcc accaccactg aaaactcagc cgaatttttt tataccactc 1680
 tgacgtcagc atttttt 1697

<210> 539
 <211> 1283
 <212> DNA
 <213> Homo sapiens

<400> 539
 ctctctgctc ctctgttcg acagtcagcc gcattctctt ttgcgtcgcc agccgagcca 60
 catcgtctcag acaccatggg gaaggtgaag gtcggagtca acggatttgg tcgtattggg 120
 cgctgtgtca ccagggtgc ttttaactct ggtaaagtgg atattgttgc catcaatgac 180

cccttcattg	acctcaacta	catggttttac	atgttccaat	atgattccac	ccatggcaaa	240
ttccatggca	ccgtcaaggc	tgagaacggg	aagcttgtca	tcaatggaaa	tcccatcacc	300
atcttccagg	agcgagatcc	ctccaaaatc	aagtggggcg	atgctggcgc	tgagtacgtc	360
gtggagtcca	ctggcgtctt	caccaccatg	gagaaggctg	gggctcattt	gcagggggga	420
gccaaaagg	tcatcatctc	tgccccctct	gctgatgccc	ccatgttcgt	catgggtgtg	480
aaccatgaga	agtatgacaa	cagcctcaag	atcatcagca	atgcctcctg	caccaccaac	540
tgcttagcac	ccctggccaa	ggtcattccat	gacaactttg	gtatcgtgga	aggactcatg	600
accacagtcc	atgccatcac	tgccaccag	aagactgtgg	atggcccctc	cgggaaactg	660
tggcgtgatg	gccgcggggc	tctccagaac	atcatccctg	cctctactgg	cgctgccaag	720
gctgtgggca	aggatcatccc	tgagctgaac	gggaagctca	ctggcatggc	cttccgtgtc	780
cccactgcca	acgtgtcagt	ggtggacctg	acctgccgtc	tagaaaaacc	tgccaaatat	840
gatgacatca	agaagggtgg	gaagcaggcg	tggaggggcc	ccctcaagg	catcctgggc	900
tacactgagc	accaggtgg	ctcctctgac	ttcaacagcg	acacccactc	ctccaccttt	960
gacgctgggg	ctggcattgc	cctcaacgac	cactttgtca	agctcatttc	ctggtatgac	1020
aacgaatttg	gctacagcaa	cagggtgggtg	gacctcatgg	cccacatggc	ctccaaggag	1080
taagaccct	ggaccaccag	ccccagcaag	agcacaagag	gaagagagag	accctcactg	1140
ctggggagtc	cctgccacac	tcagtcccc	accacactga	atctcccctc	ctcacagtgtg	1200
ccatgtagac	cccttgaaga	ggggaggggc	ctaggagacc	gcaccttgtc	atgtaccatc	1260
aataaagtac	cctgtgctca	acc				1283

<210> 540

<211> 6417

<212> DNA

<213> Homo sapiens

<400> 540

gcggctccgg	gtgactcggg	ccagtgtaga	ggctctcagg	ccgccggcag	gagcagctgg	60
gccaattccc	tggccggggag	cggaaggggg	tggcgtcggg	cctgggctcc	ccgtccccct	120
gctcggcggg	cagtgaggag	gaggatatgg	atgcactttt	gaacaacagc	ctgccccac	180
cccaccaga	aatgaagag	gaccagaag	aggatttgtc	agaaacagag	actccaaagc	240
tcaagaagaa	gaaaaagcct	aagaaacctc	gggaccctaa	aatccctaag	agcaagcgcc	300
aaaaaaagga	gcgtatgctc	ttatgccggc	agctggggga	cagctctggg	gagggggccag	360
agtttgtgga	ggaggaggaa	gagggtggctc	tgcgctcaga	cagtgagggc	agcgactata	420
ctcctggcaa	gaagaagaag	aagaagcttg	gacctaaaga	agagaagaag	agcaaatcca	480

agcgggaagga	ggaggaggag	gaggatgatg	atgatgatga	ttcaaaggag	cctaaatcat	540
ctgctcagct	cctggaagac	tggggcatgg	aagacattga	ccacgtgttc	tcagaggagg	600
attatcgaac	cctcaccaac	tacaaggcct	tcagccagtt	tgtcagaccc	ctcattgctg	660
ccaaaaatcc	caagattgct	gtctccaaga	tgatgatggt	tttgggtgca	aaatggcggg	720
agttcagtac	caataacc	ttcaaaggca	gttctggggc	atcagtggca	gctgcggcag	780
cagcagcgg	agctgtggtg	gagagcatgg	tgacagccac	tgagggtgca	ccaccacctc	840
cccctgtgga	ggtgcctatc	cgcaaggcca	agaccaagga	gggcaaagg	cccaatgctc	900
ggaggaagcc	caagggcagc	cctcgtgtac	ctgatgccaa	gaagcctaaa	ccaagaaag	960
tagctcccct	gaaaatcaag	ctgggaggtt	ttggttccaa	gcgtaagaga	tcctcgagt	1020
aggatgatga	cttagatgtg	gaatctgact	tcgatgatgc	cagtatcaat	agctattctg	1080
tttctgatgg	ttccaccagc	cgtagtagcc	gcagccgcaa	gaaactccga	accactaaaa	1140
agaaaaagaa	aggcgaggag	gaggtgactg	ctgtggatgg	ttatgagaca	gaccaccagg	1200
actattgcga	ggtgtgccag	caaggcgggtg	agatcatcct	gtgtgatacc	tgtccccgtg	1260
cttaccacat	ggtctgcctg	gatcccgaca	tggagaaggc	tcccgagggc	aagtggagct	1320
gcccacactg	cgagaaggaa	ggcatccagt	gggaagctaa	agaggacaat	tcggagggtg	1380
aggagatcct	ggaagaggtt	gggggagacc	tcgaagagga	ggatgaccac	catatggaat	1440
tctgtcgggt	ctgcaaggat	ggtggggaac	tgctctgctg	tgatacctgt	ccttcttctc	1500
accacatcca	ctgcctgaat	ccccacttc	cagagatccc	caacggtgaa	tggctctgtc	1560
cccgttgtag	gtgtccagct	ctgaagggca	aagtgcagaa	gatcctaata	tggaagtggg	1620
gtcagccacc	atctcccaca	ccagtgcctc	ggcctccaga	tgctgatccc	aacacgcctt	1680
ccccaaagcc	cttggagggg	cggccagagc	ggcagttctt	tgtgaaatgg	caaggcatgt	1740
cttactggca	ctgctcctgg	gtttctgaac	tgacgtgga	gctgcactgt	caggtgatgt	1800
tccgaaacta	tcagcggaag	aatgatatgg	atgagccacc	ttctggggac	tttgggtggtg	1860
atgaagagaa	aagccgaaag	cgaaagaaca	aggaccctaa	atttgcagag	atggaggaac	1920
gcttctatcg	ctatgggata	aaacccgagt	ggatgatgat	ccaccgaatc	ctcaaccaca	1980
gtgtggacaa	gaagggccac	gtccactact	tgatcaagt	gcgggactta	ccttacgata	2040
aggcttcttg	ggagagtgg	gatgtggaga	tccaggatta	cgacctgttc	aagcagagct	2100
attggaatca	cagggagtta	atgaggggtg	aggaaggccg	accaggcaag	aagctcaaga	2160
aggtgaagct	tcggaagtgg	gagaggcctc	cagaaacgcc	aacagttgat	ccaacagtga	2220
agtatgagcg	acagccagag	tacctggatg	ctacaggtgg	aaccctgcac	ccctatcaaa	2280
tggagggcct	gaattgggtg	cgcttctcct	gggctcaggg	cactgacacc	atcttggctg	2340

atgagatggg ccttgggaaa actgtacaga cagcagtctt cctgtattcc ctttacaagg	2400
agggtcattc caaaggcccc ttcctagtga gcgcccctct ttctaccatc atcaactggg	2460
agcgggagtt tgaaatgtgg gctccagaca tgtatgtcgt aacctatgtg ggtgacaagg	2520
acagccgtgc catcatccga gagaatgagt tctcctttga agacaatgcc attcgtgggtg	2580
gcaagaaggc ctcccgcattg aagaaagagg catctgtgaa attccatgtg ctgctgacat	2640
cctatgaatt gatcaccatt gacatggcta ttttgggctc tattgattgg gcctgcctca	2700
tcgtggatga agcccatcgg ctgaagaaca atcagtctaa gttcttccgg gtattgaatg	2760
gttactcact ccagcacaag ctggttgcga ctgggacacc attacaaaac aatctggaag	2820
agttgtttca tctgctcaac tttctcacc ccgagagggt ccacaatttg gaaggttttt	2880
tggaggagtt tgctgacatt gccaaaggagg accagataaa aaaactgcat gacatgctgg	2940
ggccgcacat gttgcggcgg ctcaaagccg atgtgttcaa gaacatgcc tccaagacag	3000
aactaattgt gcgtgtggag ctgagcccta tgcagaagaa atactacaag tacatcctca	3060
ctcgaaattt tgaagcactc aatgcccagag gtggtggcaa ccagggtgtct ctgctgaatg	3120
tggtgatgga tcttaagaag tgctgcaacc atccatacct cttccctgtg gctgcaatgg	3180
aagctcctaa gatgcctaatt ggcatgtatg atggcagtgc cctaatacaga gcatctggga	3240
aattattgct gctgcagaaa atgctcaaga accttaagga gggtagggcat cgtgtactca	3300
tcttttccca gatgaccaag atgctagacc tgctagagga tttcttgga catgaagggt	3360
ataaatacga acgcatcgat ggtggaatca ctgggaacat gcggcaagag gccattgacc	3420
gcttcaatgc accgggtgct cagcagttct gcttcttgct ttccactcga gctggggggc	3480
ttggaatcaa tctggccact gctgacacag ttattatcta tgactctgac tggaaccccc	3540
ataatgacat tcaggccttt agcagagctc accggattgg gcaaaataaa aaggtaatga	3600
tctaccgggt tgtgaccgt gcgtcagtgg aggagcgcac cacgcagggtg gcaaagaaga	3660
aatgatgct gacgcatcta gtggtgcggc ctgggctggg ctccaagact ggatctatgt	3720
ccaaacagga gcttgatgat atcctcaaat ttggcactga ggaactattc aaggatgaag	3780
ccactgatgg aggaggagac acaaagagg gagaagatag cagtgttatc cactacgatg	3840
ataaggccat tgaacggctg ctagaccgta accaggatga gactgaagac acagaattgc	3900
agggcattga tgaatatttg agctcattca aagtggccca gtatgtggta cgggaagaag	3960
aatggggga ggaagaggag gtagaacggg aatcattaa acaggaagaa agtgtggatc	4020
ctgactactg ggagaaattg ctgcggcacc attatgagca gcagcaagaa gatctagccc	4080
gaaatctggg caaaggaaaa agaatccgta aacagggtcaa ctacaatgat ggctcccagg	4140

aggaccgaga	ttggcaggac	gaccagtccg	acaaccagtc	cgattactca	gtggcttcag	4200
aggaaggtga	tgaagacttt	gatgaacggt	cagaagctcc	ccgtaggccc	agtcgtaagg	4260
gcctgcggaa	tgataaagat	aagccattgc	ctcctctggt	ggcccgtggt	ggtgggaata	4320
ttgaagtact	tggttttaat	gctcgtcagc	gaaaagcctt	tcttaatgca	attatgcgat	4380
atggtatgcc	acctcaggat	gcttttacta	cccagtggct	tgtaagagac	ctgcgaggca	4440
aatcagagaa	agagttcaag	gcatatgtct	ctcttttcat	gcggcattta	tgtgagccgg	4500
gggcagatgg	ggctgagacc	tttgcctgat	gtgtccccc	agaaggcctg	tctcgccagc	4560
atgtccttac	tagaattggt	gttatgtctt	tgattcgcaa	gaaggttcag	gagtttgaac	4620
atgttaatgg	gcgctggagc	atgcctgaac	tggctgaggt	ggaggaaaac	aagaagatgt	4680
cccagccagg	gtcacctcc	ccaaaaactc	ctacaccctc	cactccaggg	gacacgcagc	4740
ccaacactcc	tgcacctgtc	ccacctgctg	aagatgggat	aaaaatagag	gaaaatagcc	4800
tcaaagaaga	agagagcata	gaaggagaaa	aggaggttaa	atctacagcc	cctgagactg	4860
ccattgagtg	tacacaggcc	cctgcccctg	cctcagagga	tgaaaaggtc	gttgttgaac	4920
cccctgaggg	agaggagaaa	gtggaaaagg	cagaggtgaa	ggagagaaca	gaggaaccta	4980
tggagacaga	gccc aaagg	gctgctgatg	tagagaagg	ggaggaaaag	tcagcaatag	5040
atctgacccc	tattgtggta	gaagacaaag	aagagaagaa	agaagaagaa	gagaaaaaag	5100
aggatgatgct	tcagaatgga	gagaccccca	aggacctgaa	tgatgagaaa	cagaagaaaa	5160
atattaaaca	acgtttcatg	tttaacattg	cagatggtgg	ttttactgag	ttgcactccc	5220
tttggcagaa	tgaagagcgg	gcagccacag	ttaccaagaa	gacttatgag	atctggcatc	5280
gacggcatga	ctactggctg	ctagccggca	ttataaaacca	tggtatgcc	cggtggcaag	5340
acatccagaa	tgaccacgc	tatgccatcc	tcaatgagcc	tttcaagggt	gaaatgaacc	5400
gtggcaattt	cttagagatc	aagaataaat	ttctagctcg	aaggtttaag	ctcttagaac	5460
aagctctggt	gattgaggaa	cagctgcgcc	gggctgctta	cttgaacatg	tcagaagacc	5520
cttctcacc	ttccatggcc	ctcaacaccc	gctttgctga	ggtggagtgt	ttggcggaaa	5580
gtcatcagca	cctgtccaag	gagtcaatgg	caggaaacaa	gccagccaat	gcagtcctgc	5640
acaaagttct	gaaacagctg	gaagaactgc	tgagtgacat	gaaagctgat	gtgactcgac	5700
tcccagctac	cattgcccga	attccccccag	ttgctgtgag	gttacagatg	tcagagcgta	5760
acattctcag	ccgctggca	aaccgggcac	ccgaacctac	cccacagcag	gtagcccagc	5820
agcagtgaag	atgcagactg	ataccacctc	caccgctgag	cagtgcctt	cctcactttc	5880
tcttgtccca	gcttctcccc	tgggggctg	agagaccctc	accttccttc	tgcccatctt	5940
ccatgttgta	aaggaacagc	cccagtgcac	tgggggaggg	gaggagtgta	ggggcagtgg	6000

tgcccttcct gcagaagaga catgcagcag tagcgctggc gccatctgca ggagctggcg	6060
ggctggcctt ctggaccctg gcttctcccc actgtaacgc ctgttacaca caaactgttg	6120
tgggttcctg ccaggcttga agaaaatgat ctgaattttt tcctcctttt ggttttattt	6180
tgttggttta ttttgtgttt tcttttctcc tttttggggg gtattcagag tgggctgggc	6240
ccctgggcga gacacagcta cctctgttgg catcttttta ataccaggaa cccagcggct	6300
ctagccactg agcggctaaa tgaaataaag tggaaaaaaa aaaaaaagga aaaaaccaa	6360
agcataaaaa accacagcaa atttcttgat gaaaattgaa aataaaagtt tccttgt	6417

<210> 541
 <211> 1680
 <212> DNA
 <213> Homo sapiens

<400> 541	
cacggcagcc ctacactcgg cctggaagaa ttgtttttct tctctggaaa ggtgaacatt	60
tatagcattt atttcccaaa tctgttaaca tggcaaaata tgtcagtctc actgaagcta	120
acgaagaact caaggtctta atggacgaga accagaccag ccgccccgtg gccgttcaca	180
cctccaccgt gaacccgctc gggaagcagc tcttgccgaa aacctttgga cagtccagtg	240
tcaacattga ccagcaagtg gtaattggta tgcctcagag accagcagca tcaaacatcc	300
ctgtggtagg aagcccaaac ccaccagca ctcaacttgc ctctcagaac cagcattcct	360
actcctcacc tccttgggcc gggcagcaca acaggaaagg agagaagaat ggcatgggcc	420
tgtgccgtct ttccatgaag gtctgggaga cgggtgcagag gaaagggacc acttcctgcc	480
aggaagtggg gggcgagctg gtcgccaagt tcagagctgc cagcaaccac gcctcacaa	540
acgagtcagc ttatgacgtg aaaaacataa aacggcgcac ctacgatgcc ttaaactgtc	600
tgatggccat gaatatcatc tccagggaga aaaagaagat caagtggatt ggtctgacca	660
ccaactcggc tcagaactgt cagaacttac ggggtggaaag acagaagaga cttgaaagaa	720
taaagcagaa acagtctgaa cttcaacaac ttattctaca gcaaattgct ttcaagaacc	780
tgggtgctgag aaaccagtat gtggaggagc aggtcagcca gcggccgctg cccaactcag	840
tcatccacgt gcccttcac atcatcagca gtagcaagaa gaccgtcatc aactgcagca	900
tctccgacga caaatcagaa tatctgttta agtttaacag ctcccttgaa atccacgatg	960
acacagaagt gctgatgtgg atgggcatga cttttgggct agagtccggg agctgctctg	1020
ccgaagacct taaaatggcc agaaatttgg tcccaaaggc tctggagccg tacgtgacag	1080
aaatggctca gggaactttt ggaggtgtgt tcacgacggc aggttccagg tctaattggca	1140
cgtggctttc tgccagtgac ctgaccaaca ttgcgattgg gatgctggcc acaagctccg	1200

gtggatctca	gtacagtggc	tccaggggtg	agaccccagc	agtcgaggag	gaagaggagg	1260
aggacaacaa	cgatgacgac	ctcagtgaga	atgacgagga	tgactgacgt	cctctcgcct	1320
taagattcag	cttcaggaaa	acatttaggg	aaaagaaact	tttttttttt	ttttaatgtg	1380
aggttttctg	tttctttttt	gcctactccc	aagaagatat	tggttaagcta	tagaatttag	1440
atatgcacct	ctgataagca	aggattgttt	cccgtatgat	taagacgtgc	tgttgatgtg	1500
tgttttgata	ccagtgtgct	gacacagaat	ctttatttac	tttttaggat	tttgtgtttt	1560
cattttctat	ttttctttta	atgcagagtt	cattgttgcc	ccttaacagt	ttttcctgag	1620
tttactgaag	aaattgtact	tcattccacat	ccatgaaaat	aaaatgctct	ccttttgtgc	1680

<210> 542
 <211> 2055
 <212> DNA
 <213> Homo sapiens

<400> 542	
agcactcaaa	aagagtgaat gaaatgtgca gctcagagtg tcatttctga agggaggagt 60
ctttctcttg	gagaagagtc ctcaatgagc ctggccgagg cccgggatct gtgtgaagtg 120
gactaaggat	taagtaggat gtcaactgag acagaacttc aagtagctgt gaaaaccagc 180
gccaaagaa	g actccagaaa gaaaggctcag gatcgcagtg aagccacttt gataaagagg 240
tttaaagggtg	aaggggtccg gtacaaagcc aaattgatcg ggattgatga agtttccgca 300
gctcggggag	acaagttatg tcaagattcc atgatgaaac tcaagggcgt tgttgctggc 360
gctcgttcca	aaggagaaca caaacagaaa atctttttta ccatctcctt tggaggaatc 420
aaaatccttg	atgagaagac agggggccctt cagcatcatc atgctgttca tgaaatatcc 480
tacattgcaa	aggacattac agatcaccgg gcctttggat atgtttgtgg gaaggaaggg 540
aatcacagat	ttgtggccat aaaaacagcc caggcggctg aacctgttat tctggacttg 600
agagatctct	ttcaactcat ttatgaattg aagcaaagag aagaattaga aaaaaaggca 660
caaaaggata	agcagtgtga acaagctgtg taccagacaa tattggaaga ggatgttgaa 720
gatcctgtgt	accagtacat tgtgtttgag gctggacacg agccaatccg tgatcccga 780
acggaagaaa	acatttatca ggttcccacc agccaaaaga aggaagggtg ttatgatgtg 840
ccaaaaagtc	aacctgctgt gacccaatta gaactttttg gggacatgtc cacaccccct 900
gatataacct	ctccccccac tcctgcaact ccagggtgatg cctttatccc atcttcatct 960
cagacccttc	cagcgagtgc agatgtgttt agttctgtac ctttcggcac tgctgctgta 1020
ccctcagggt	acgttgcaat gggcgctgtc ctcccgctct tctgggggtca gcagcccctc 1080
gtccaacagc	agatgggtcat ggggtgccag ccaccagtcg ctcagggtgat gccgggggct 1140

cagcccatcg	catggggcca	gccgggtctc	tttcctgcca	ctcagcagcc	ctggccaact	1200
gtggccgggc	agtttccgcc	agccgccttc	atgcccacac	aaactgttat	gcctttgcca	1260
gctgccatgt	tccaaggtec	cctcaccccc	cttgccaccg	tcccaggcac	gagtgactcc	1320
accagggtcaa	gtccacagac	cgacaagccc	aggcagaaaa	tgggcaaaga	aacgtttaag	1380
gattttcaga	tggcccagcc	tccgcccgtg	ccctcccgc	aaccgacca	gccctccctc	1440
acctgtacct	cagaggcctt	ctccagttac	ttcaacaaag	tgggggtggc	acaggatata	1500
gacgactgtg	atgactttga	catctcccag	ttgaatttga	cccctgtgac	ttctaccaca	1560
ccatcgacca	actcacctcc	aaccccagcc	cctagacaga	gctctccatc	caaatacatct	1620
gcatcccatg	ccagtgatcc	taccacagat	gacatctttg	aagagggtct	tgaaagtccc	1680
agcaaaagcg	aagagcaaga	agctcctgat	ggatcacagg	cctcatccaa	cagtgatcca	1740
tttggtgagc	ccagtgggga	gccagtggtg	gataatataa	gtccacaggc	cggtagctag	1800
atagcgcagg	tctgggagcc	agagcctctg	tacgcgcaga	tcaacagacc	taagaaatag	1860
catcgatgcg	agctcgtggt	gggtgctcaa	gactggcatg	gacatcagca	tcacgacagg	1920
ctctcttgta	ttctttcacc	tcttcccaca	agaaattcat	gattgcccga	tggaactcgc	1980
tcagaagagg	gaactaagca	tttttggcaa	ccaatggcag	atatctatgg	cagcacacaa	2040
aaaaaaaaaa	aaaaa					2055

<210> 543

<211> 4239

<212> DNA

<213> Homo sapiens

<400> 543

ctgtgggcct	gggagctgcc	tctgaggaac	acgccgcagg	gccaggcatg	tgaggctctct	60
gcgggtcatg	gagaacctcc	ctgccgtgac	cactgaggag	ccgacccccca	tggggagggg	120
tcctgtggga	ccctcaggag	gtggcagcac	ccgggaccag	gtccggactg	tggtcatgag	180
gccctctgtg	agctgggaga	aagcggggcc	cgaggaggcc	aaggcgccgg	tgagaggcga	240
cgaggctcct	cctgcccgcg	tggtctgggc	tgctgctggg	acccctccct	gccagatggg	300
ggtttatccc	acagacctga	ccctgcagct	gctggctgtg	cggaggaaga	gcagactgcg	360
ggaccccggc	ctacagcaga	ccctccgggg	ccagctccgc	ctgctggaga	atgatagccg	420
ggagatggcc	cgcgtgcttg	gggaattatc	agccaggctg	ctgtccatcc	acagtgacca	480
ggaccggatc	gtggtgacgt	ttaagacttt	tgaagaaatc	tggaagtttt	ccacctacca	540
tgctctcggc	ttcactcatc	actgcctggc	aaacctgctc	atggaccagg	ccttctggct	600
gctcttgccc	agtgaggagg	aggagacggc	catccaagtc	catgtggatg	agaacgcctt	660

aaggctgacc cacgagagcc tcctcatcca agaagggccc ttctttgtcc tgtgtcctga	720
ccaccatgtg agagtgatga cgggtccccg ggatgcagga aatggccccc aggcctcag	780
gcaggcttcg ggggcacccc agggagaggc ggccccgaa acagactctt caccgccgag	840
ccccagcgtg tcctccgagg aggtggcagt ggcgcccgcc ccggagcctt tgattccatt	900
tcatacgtgg gctcttagga tccccagga ccccatcgac gatgccatgg gtggccctgt	960
gatgcccggc aaccgctga tggctgtggg cctggcctcg gcattggcag acttccaggg	1020
ctcggggccc gaagagatga ccttccgagg tggcgacctc atcgagatcc ttggggcgca	1080
ggtgcccagc ctgccctggt gcgtgggccc acacgcagcc tcgggcccggg tggggtttgt	1140
gcggagcagc ctcatcagca tgcagggccc cgtgtccgag ttggaaagtg cgatttttct	1200
caatgaggaa gaaaagtcac tcttcagcga gggctgcttt tctgaggagg atgccaggca	1260
gttgctgagg cggatgtcgg gcaccgatgt ctgcagcgtg tacagcctgg actcagtaga	1320
ggaagctgag accgagcagc cgcaggaaaa agaaatacct ccaccttgcc tgagcccgga	1380
gccacaggag acctgcaga aggtgaagaa tgttctggaa caatgcaaga cctgcccagg	1440
ctgccccag gagccagcgt cctggggtct ctgtgcggca tccagcgacg tgagcttgca	1500
ggaccccag gagccctcct tctgcttgga agccgaggac gactgggagg acccagaggc	1560
cctgagctca ctgctgctgt tcctgaacgc ccctgggtac aaggccagct tccgtggcct	1620
gtacgatgtg gcgctgccgt ggctgagcag cgtgttccgc agcttcagcg acgaggagga	1680
gctgactggg cgcctggcac agggccgggg ggccgccaag aaagctggcc tcctcatggc	1740
cctggccagg ctctgcttcc tcctggggcg gctgtgcagc aggaggctca agctgtccca	1800
ggcccggtg tactttgagg aagcgtggg ggccctggag ggcagcttcg gggacctgtt	1860
cctggtggtg gctgtgtacg ccaacctggc cagcatttac cggaagcaga agaaccggga	1920
gaagtgtgca caggtggtgc ccaaagccat ggccctgctc ctggggacgc ccgaccacat	1980
ctgcagcacc gaggcggagg gggagctcct gcagctggcg ctgcggcggg cggtgggtgg	2040
ccagagcctg caggccgagg cccgggcctg ctctctgctg gccaggcacc acgtgcacct	2100
caagcagccc gaggaggccc tgcccttctt agagcggctg ctgcttttgc acagggactc	2160
gggagcccca gaggccgctt ggctctcaga ctgctaccta ctctggctg acatctacag	2220
ccgcaagtgc ctgccccacc tgggtgctgag ctgtgtcaag gtggcctcat tgcggacagc	2280
gggctcgtg gccggctcgc tgaggagtgt gaacctggtg ctccagaacg cccccagcc	2340
ccacagcctc cctgccccaa cttcccacta cctcaggcaa gcgctggcct ccctgacccc	2400
gggcacaggc caggcgtgc gcggccccct ctacaccagc ttggcccagc tgtacagcca	2460

ccatggctgc caccgcccgg ccatcacctt catgacgcag gcagtgggaag ccagtgcctat	2520
tgccggagtc cgtgccatcg tggaccacct ggtggccctg gcctggctgc acgtgcttca	2580
tgggcagagc ccggtggccc tggacatcct gcagtctgtc cgggatgcag tggtagccag	2640
cgaggaccag gagggcgtga ttgccaacat ggtggccgtg gctctgaaga ggacgggccc	2700
gacgaggcag gcagctgaga gctactaccg cgcctgcgg gtggctcggg acctgggcca	2760
gcaaaggaac caggcagtggt ggctggccaa cttcggggcc ctgtgcctgc atgcgggtgc	2820
cagcaggctg gccagcact acctcctgga ggccgtgcgg ctgttctcga ggctgcccct	2880
tggggagtgt ggccgggact tcacccacgt gctcctgcag ctgggccatc tctgcacccg	2940
ccaggggccc gccagcagg gcaagggcta ctacgagtg gcccttctgg tcgccgtgga	3000
gatggggcac gtggagagcc agctgcgggc cgtccagcgg ctgtgccact tctacagcgc	3060
cgtcatgccc agcgaggccc agtgtgtcat ctacatgag ctccagctct ccccgccctg	3120
caaggtggcc gacaaggtgc tggaggggca gctcctggag accatcagcc agctctacct	3180
gtccctgggc accgagcggg cctacaaatc cgcactggac tacaccaaac gaagtctggg	3240
gattttcatt gacctccaga agaaagagaa ggaggcgcag gcctggctgc aagcaggga	3300
gatctattac atcttgccgc agagcgagct ggtggacctc tacatccagg tggcacagaa	3360
cgtggccctg tacacaggcg accccaacct ggggctggag ctgtttgagg cggtggaga	3420
catcttcttc gacggggcct gggagcggga gaaagctgtg tccttctacc gggaccgggc	3480
cctgcccctg gcagtgacta cgggcaaccg caaggcggag ctgcggctgt gcaacaagct	3540
ggtggcactg ctggccacgc tggaggagcc ccaggagggc ttggagtttg cccacatggc	3600
cctagcactc agcatcacc tgggggaccg gctgaacgag cgcgtggcct accaccggct	3660
ggccgcccctg caacaccgac tgggccatgg cgagctggca gagcacttct acctcaaggc	3720
cctgtcgctc tgcaactcgc cgctggagtt tgacgaggag accctctact acgtgaaggt	3780
gtacctggtg ctcggtgaca tcatcttcta cgacctgaag gaccggttg atgcagccgg	3840
gtactaccag ctggcgctgg cggccgccgt ggacctgggc aacaagaagg cacagctgaa	3900
gatctacag cggtggcca ccatctacca caacttctc ctggaccgtg agaagtcgt	3960
cttcttctac cagaaggcca ggaccttcgc cacagagctc aacgtccgca gggtaacct	4020
gcctcctctg ccactctgcg ggtgggcccc ctggttgccc cccagccacc ctcgctgagg	4080
acagcatcca agggagtggg ttttggtgcaa gggctggggg tctcctgcct ctctggtgt	4140
cgccggtggc tcattttctg gcaaatggag gcacgaacgc agggggccaaa tagcaataaa	4200
tgggttttgt ttttttttg caataaaaaa aaaaaaaaaa	4239

<210> 544
 <211> 2207
 <212> DNA
 <213> Homo sapiens

<400> 544

```

atattttcttc tatgaatctt ttgtgtacag atttttgtgt agacatatat gtttttatct      60
ctgttggggtg tatacctgag agtagaatta ctgggttata tggtaactct atgttttagcc      120
ttttgaggaa ctgctagact gtttcccaaa ggagctgtat cattttacat aaccaccaga      180
tatgtttgag ggttctgatt tctccacagt ctcatgaata cttattattg tctgccattt      240
ttatttttagc cagtcaaggg ggtttgaaat ggtacctcat tatgggtttca gtttgtgttt      300
ttctaattgag taatgatgtt gagtatcatt ttatatatttc tgtgcttatt aaccatttgt      360
atatcatctt tggagaaatg tctgttcata tcctttgctc atttttttaa gattggatta      420
tttgatttct cattattgaa ttgtaagagt tctttatata gtctagctat aagtcataata      480
tatatatgat ttgcacaaat tttcttccat tctatagggt gttctcactt tcatgatggg      540
gagaaccttg ttttttaaac agtttctcac ttgtcttggt aaaggggtact ggataccaac      600
cccctcatgc tggcttagcc atcaaaagcg tcccattttt acactttgta gattcctctt      660
ggaccactt ttctccaaag aacctattc cccccaagtt atccttccag ttctctagca      720
tcaaaacaaa attcgctttc atttggcagt tgtagtcca aactgcacca ttttgtaagt      780
ccccagcat tttgcagacc ttgggtcaaag tgacacattc caggcgagtt tgggctgtga      840
gaaacatcct gcctaaccac ctgaccacaa cacacaagaa catccttatc ataccctgct      900
aagcaaaggc ccaactgaag gaacgtccct atcataccct gcaactggaa caaagggcca      960
aaccacctga tcataggaac atcttaatat cctgccgggc agcaaaccag acagcccaga     1020
cccctcctgc ccatacctat aagtccccag cctgtgaacg gcagtgggct ctggcattaa     1080
gctgcacccc ccacctctgc aggtttttgc aatatacttg tgttgctgta gagccccccc     1140
cccaccccca tctttcttta actccacct tcccttttaa aaaaacctaa cagcaatagc     1200
atggtatgat tcaaaaactc attttgccac taactgacat tgtatcttgg ttaggtcact     1260
taatatactt gggtctcagg tttttttgta aaataaatta atttatttct agtaattcat     1320
gtgagtagca gacttcattc acctgatact tgatttttaa agaaaagttt ttcaaccag      1380
ggaatttata gtgggtgtca gtcgagaaaa atgatgggac aagtctcaat catttttagga     1440
gatttatttg ccaaagttaa ggacgtgccc gggaggcaag tctatgtctt tcttcgaaga     1500
tgattttgag gtctccaaat ttaaagggga aagggcagga tggtgagaag tacacaattg     1560
tcatgtaaga ggtgggtagg ggcaaatagt tatttatgcc tttggctcag tgaatctgca     1620
ttttttacgt aagatgacat aaaaggggca gaggaaaata ttaggggaat ctgcatttta     1680

```

cataagataa	cagacaaaat	ggggtagggg	aacaatcaga	tttgcattta	tgtctggtgg	1740
gccaggggta	actgcacctg	taagctgtca	attgacattg	ccatgatgaa	attttagctc	1800
actgggaatt	tccctgtggg	caaaatacag	gggaggtgtg	tagcttttca	tcttgtagcc	1860
atcctattta	gaaacaaaaa	ggggggagac	aggtttgcat	gacccagttc	ccagcttgac	1920
ttcttccctt	tggctaaatg	agtttggggg	cccaaaattt	aatttccttt	cacatttccc	1980
ttcttttttc	tgtaaaatct	tttggagaaa	gcatttttaa	aggaagacga	gttcctggcc	2040
tcaggttggt	ttttcctccc	ttttttgagc	tgctttctta	ttgctaggat	ggttttattcc	2100
tagaagttca	ggtccccagt	ctctaggaag	gctcatttct	aagagggtcat	gtcccatgaa	2160
ggttaaaaaa	aaaaaatagg	aagaggaaaag	aagtaaaaaa	ggaaagg		2207

<210> 545
 <211> 467
 <212> DNA
 <213> Homo sapiens

<400> 545	
cggccgcaga	gtcccaccgc caccaggcga cccccacca gagagggaca gacatgcggg 60
gagccagcac	cgggcaagat ggctctgggg atcctcattc tgtgaagaca ccaactcatt 120
tctcaaacac	aggatccagg agacagatgg ctctaaatg gagatggcac atgctccgtg 180
gggtccctca	tagaggagtg ccaccctcca cactggccac gctgggctgc cccagagcgg 240
ccagaaaagga	agggtgggagc tagcccatc ctactcaga ggccggaagg aggaagatgg 300
catctcgcca	acttcagagc cgaatggcct ctagccacac tgcttccaga cccagacgg 360
ggcagcagca	gcagttccca gatgagcacc cattgttgca gctaggaccc accaaggatg 420
ggactcctgg	agtcagggtgc acaccaggta acccaggacc acgcctc 467

<210> 546
 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 546	
gtcatgaact	atttttaaca tttccgaaag cctcctggaa attattatgc agccagccac 60
aacagggctg	caacaaaatg ccagtatctt cgcttttctc tggagtccca tcagctcagt 120
gccgtcacac	tgatcaaagg cactgcctgg cagtcattct tgtagtgat gagtaaagta 180
gacaggaaat	tcattgttgc ttgataaatg tcctctccaa gtcaccccat cttgggaaac 240
acaccaccta	tttaccagtg tgccaagtc aaatgcagga gtcaccctg gttcttctct 300
ttctgtcact	ctgtctcccc aaccctaac cagctcatca gcaagtcccc caagcctggc 360

atggcacagg ggctccacaa ttatttggtg actgaatgac ctccatctga taagtgaact 420
tgaatgtgcc cagaaaataa gaaaataacg aaaagcctg 459

<210> 547
<211> 428
<212> DNA
<213> Homo sapiens

<400> 547
atgtctcttg tcagctgtct ttcagaagac ctggtggggc aagtcctggg gcatcatggt 60
gaccgagctg gagaaagcct tgaactctat catcgacgtc taccacaagt actccctgat 120
aaaggggaat ttccatgccg tctacagggg tgacctgaag aaattgctag agaccgagtg 180
tcctcagtat atcaggaaaa aggggtgcaga cgtctgggtc aaagagttgg atatcaacac 240
tgatgggtgca gttaacttcc aggagttcct cattctgggtg ataaagatgg gcgtggcagc 300
ccacaaaaaa agccatgaag aaagccacaa agagtagctg agttactggg cccagaggct 360
gggcccttg acatgtacct gcagaataat aaagtcatca atacctcaaa aaaaaaaaaa 420
aaaaaaaaa 428

<210> 548
<211> 1131
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (624)..(624)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (848)..(848)
<223> n is a, c, g, t or u

<400> 548
ttccgaatat cgtcgaccac gcgtccgtag aanataaaac tgctatgaga tagaaatgat 60
gtaaaattat gtggaaagtt ttccctcata tactcacata cagcctttga agggctctgg 120
ctctgaccgg ttgatggcct tgagcgagat gaaatcatga aattgagtca aatcaatttg 180
acattgaaat gacaagagga aactcttaaa tacataaaaa caagctctca tttgcctagg 240
atagatactg tcttaaaaaat aaagactgaa cctagatggt ctgagcacta gcaacaaggt 300
attttaacaa gtttaagga attctctgaa aaagttataa aattattcta ggaaacataa 360

ccataatagt gttttaaggg actttcacct ggggatttta tattcatgaa cagagtgtat 420
 tctgtattta aaatgtctca tttgtgggaa ttggatgaca tgttttttga taaatttatt 480
 cacaatataa attgactttt tattctagga ccatgtgaat aatgggttcc attgcacaaa 540
 tacaaatatt ttaatagctt cttaggcagt ggtgtagaca tcttggatat aaataattgt 600
 agatcttgta tatttgattt ttanaaaact agaataaaca gagaggcata aacatatctt 660
 agagtccaag tggtagtgtt tagcattgga tataataaat ggatgtttta caaagtgttt 720
 ccataattct ctctctatac ataaatgtct tgttttcaaa agtggatgga acttggctgg 780
 gtgtgggtggc tcacgcctgt aatcctagca ctttgggaag ccaggccggg aggatcactt 840
 gagctcanga gtttgagaca tcctgggcca catagtgaga cctgggtctcc tgaaaaaaaa 900
 aagtggatgg gacttgtacc agagatttta tctacttctc caactgcttc agaataccca 960
 ttgagatgtt cccctggaa agatgacccc atactgcctc ttgagccatt tcttcccacc 1020
 taacattctt aaatgataaa ggcccaactt ttggcattct tccaatttc gggaacctga 1080
 gtttgagggg gttccaaatt tggggaaaaa aatgggggtt aaggtttaac t 1131

<210> 549
 <211> 3854
 <212> DNA
 <213> Homo sapiens

<400> 549
 gccagagtct ctccgcttta atgcgctccc attagtgcg tccccactg gaaaaccgtg 60
 gcttctgtat tatttgccat ctttgttgtg taggagcagg gagggcttcc tcccggggtc 120
 ctaggcggcg gtgcagtccg tcgtagaaga attagagtag aagttgtcgg ggtccgctct 180
 taggacgcag ccgcctcatg ggggtccagg ggctctggaa gctgctggag tgctccgggc 240
 ggcaggtcag ccccgaagcg ctggaaggga agatcctggc tgttgatatt agcatttggg 300
 taaaccaagc acttaaagga gtccgggatc gccatgggaa ctcaatagaa aatcctcatc 360
 ttctcacttt gtttcatcgg ctctgcaaac tcttattttt tcgaattcgt cctatttttg 420
 tgtttgatgg ggatgctcca ctattgaaga aacagacttt ggtgaagaga aggcagagaa 480
 aggacttagc gtccagtga cccaggaaaa cgacagagaa gcttctgaaa acatttttga 540
 aaagacaagc catcaaaact gccttcagaa gcaaaagaga tgaagcacta cccagtctta 600
 cccaagttcg aagagaaaaa gacctctatg ttttgcctcc ttacaagag gaagaaaaac 660
 acagttcaga agaggaagat gaaaaagaat ggcaagaaag aatgaatcaa aaacaagcat 720
 tacaggaaga gttctttcat aatcctcaag cgatagatat tgagtctgag gacttcagca 780
 gcctgcccc tgaagtaaag catgaaatct tgactgatat gaaagagttc accaagcgca 840

gaagaacatt atttgaagca atgccagagg agtctgatga cttttcacag taccaactca	900
aaggcttgct taaaaagaac tatctgaacc agcatataga acatgtccaa aaggaaatga	960
atcagcaaca ttcaggacac atccgaaggc agtatgaaga tgaagggggc tttctgaagg	1020
aggtagagtc aaggagagtg gtctctgaag acacttcaca ttacatcttg ataaaaggta	1080
ttcaagctaa gacagttgca gaagtggatt cagagtctct tccttcttcc agcaaaatgc	1140
acggcatgtc ttttgacgtg aagtcattct catgtgaaaa actgaagaca gagaaagagc	1200
ctgatgctac cctccttct ccaagaactt tactagctat gcaagctgcc ctgctgggaa	1260
gtagctcaga agaggagctg gagagtgaaa atcgaaggca ggcccgtggg aggaacgcac	1320
ctgctgctgt agacgaaggc tccatatcac cccggactct ttcagccatt aagagagctc	1380
ttgacgatga cgaagatgta aaagtgtgtg ctggggatga tgtgcagacg ggagggccag	1440
gagcagaaga aatgcgtata aacagctcca ccgagaacag tgatgaagga cttaaagtga	1500
gagatggaaa aggaataaccg tttactgcaa cacttgctc atctagtgtg aactctgcag	1560
aggagcacgt agccagcact aatgagggga gagagcccac agactcagtt ccaaaagaac	1620
aaatgtcact tggtcacgtg gggactgaag cctttccgat aagtgatgag tctatgatta	1680
aggacagaaa agatcggctg cctctggaga gtgcagtggg tagacatagt gacgcacctg	1740
ggctcccga tggaaggga ctgacaccgg catctccaac ttgtacaaat tctgtgtcaa	1800
agaatgaaac acatgctgaa gtgcttgagc agcagaacga actttgcca tatgagagta	1860
aattcgattc ttctcttctt tcaagtgatg atgaaacaaa atgtaaaccg aattctgctt	1920
ctgaagtcac tggccctgtc agtttgcaag aaacaagtag catagtaagt gtcccttcag	1980
aggcagtaga taatgtggaa aatgtggtgt catttaatgc taaagagcat gagaattttc	2040
tggaaaccat ccaagaacag cagaccactg aatctgcagg ccaggattta atttccattc	2100
caaaggccgt ggaaccaatg gaaattgact cggaagaaag tgaatctgat ggaagtttca	2160
ttgaagtgca aagtgtgatt agtgatgagg aacttcaagc agaattccct gaaacttcca	2220
aacctccctc agaacaaggc gaagaggaac tggtaggaac tagggaggga gaagccctg	2280
ctgagtccga gagcctcctg agggacaact ctgagaggga cgacgtggat ggtgagccac	2340
aggaagctga gaaagatgcg gaagattcgc tccatgaatg gcaagatatt aatttgagg	2400
agttggaaac tctggagagc aacctcttag cacagcagaa ttactgaaa gctcaaaaac	2460
agcagcaaga acggatcgct gctactgtca ccggacagat gttcctggaa agccaggaac	2520
tcctgcgcct gttcggcatt cctacatcc aggctcccat ggaagcagag gcgcagtgcg	2580
ccatcctgga cctgactgat cagacttccg gaaccatcac tgatgacagt gatatctggc	2640

tgtttggagc gcggcatgtc tatagaaact tttttaataa aaacaagttt gtagaatatt	2700
atcaatatgt ggactttcac aatcaattgg gattggaccg gaataagtta ataaatttgg	2760
cttatttgct tggaagtgat tataccgaag gaataccaac tgtgggttgt gtaaccgcca	2820
tggaaattct caatgaattc cctgggcatg gcctggaacc tctcctaaaa ttctcagaat	2880
ggtggcatga agctcaaaaa aatccaaaga taagacctaa tcctcatgac accaaagtga	2940
aaaaaaaaatt acggacattg caactcacc cttggctttcc taaccagct gttgccgagg	3000
cctacctcaa acccgtggtg gatgactcga agggatcctt tctgtggggg aaacctgac	3060
tcgacaaaat tagagaattt tgtcagcggg atttcggctg gaacagaacg aagacagatg	3120
aatctctgtt tcctgtatta aagcaactcg atgccagca gacacagctc cgaattgatt	3180
ccttcttttag attagcacia caggagaaag aagatgctaa acgtattaag agccagagac	3240
taaacagagc tgtgacatgt atgctaagga aagagaaaga agcagcagcc agcgaaatag	3300
aagcagtttc tgttgccatg gagaaagaat ttgagctact tgataaggca aaacgaaaaa	3360
cccagaagag aggcataaca aataccttag aagagtcac aagcctgaaa agaaagaggc	3420
tttcagattc taaacgaaag aatacatgcg gtggattttt gggggagacc tgcctctcag	3480
aatcatctga tggatcttca agtgaacatg ctgaaagttc atctttaatg aatgtacaaa	3540
ggagaacagc tgcgaaagag ccaaaaacca gtgcttcaga ttcgcagaac tcagtgaagg	3600
aagctcccgt gaagaatgga ggtgcgacca ccagcagctc tagtgatagt gatgacgatg	3660
gagggaaaaga gaagatggtc ctcgtgaccg ccagatctgt gtttgggaag aaaagaagga	3720
aactaagacg tgcgagggga agaaaaagga aaacctaatt aaaaaatatg tatcctctat	3780
aattagttat gacagccatt tgtaatgaat ttgtcgcaa gacgtaataa aattaactgg	3840
tggcacggtc aaaa	3854

<210> 550

<211> 344

<212> DNA

<213> Homo sapiens

<400> 550

cctttccggc ggtgacgacc tacgcacacg agaacatgcc tctcgcaaag gatctccttc	60
atccctctcc agaagaggag aagaggaaac acaagaagaa acgcctggtg cagagcccca	120
attcctactt catggatgtg aaatgcccg gatgctataa aatcaccacg gtcttttagcc	180
atgcacaaac ggtagttttg tgtgttggt gctccactgt cctctgccag cctacaggag	240
gaaaagcaag gcttacagaa ggatgttcct tcaggaggaa gcagcactaa aagcactctg	300
agtcaagatg agtgggaaac catctcaata aacacatttt ggat	344

<210> 551
 <211> 2692
 <212> DNA
 <213> Homo sapiens

<400> 551
 acatggatgg gtgcaaaaaa gagctgcccc gcttgcaaga gccggaggag gacgaggatt 60
 gttacatcct taatgttcag tcaagcagtg atgacaccag tgggtcttct gtggccagaa 120
 gagctccgaa gagacaggcg agttgcatcc ttaatgtcca gtcaaggagt ggtgacacca 180
 gtgggtcttc tgtggccaga agagctccga agagacaggc gagctccgtg gtagtgattg 240
 actctgattc tgatgaggaa tgtcacaccc atgaagagaa gaaagctaag ttattggaaa 300
 taaacagcga cgatgagagt cgggagtgtt gtcattgtgaa gcctgccatc caggaacctc 360
 caatagttat tagtgatgat gacaatgacg atgacaacgg taatgatttg gaagttccccg 420
 acgacaacag tgatgattca gaagctccccg acgacaacag tgatgattcg gaagctcctg 480
 acgacaacag tgatgattcg gaagctccccg acgacaacag tgatgattcg gaagctccccg 540
 acgacaatag tgatgattcg gatgttccccg acgacaacag tgatgattca tccgacgaca 600
 acagtgatga ttcattccgac gacaacagtg atgattcgga tgttccccgac gacaagagtg 660
 atgattcgga tgttccccgac gacagcagtg atgattcgga tgttccccgac gacagcagtg 720
 atgattcgga agctccccgac gacagcagtg atgattcgga agctccccgac gacagcagtg 780
 atgattcgga agctccccgac gacagcagtg atgattcgga agctccccgac gacagcagtg 840
 atgattcgga agcttccgac gacagcagtg atgattcgga agcttccgac gacagcagtg 900
 atgattcgga agctccccgac gacaagagtg atgattcgga tgttccccgaa gacaagagtg 960
 atgattcgga tgttccccgat gacaatagtg atgatttggga agttcctgtg ccagcagaag 1020
 atttgtgtaa tgaaggccaa attgcttcag atgaagaaga gctgggtgag gctgctgctg 1080
 ctgtctccca gcatgattca tctgatgatg ctggtgagca ggatcttggt gagaatctca 1140
 gcaaaccacc aagtgtatcct gaggctaacc ctgaagtttc agagagaaaag ctgccaaactg 1200
 aggaagagcc tgcacctgtg gtggaacaat cagggaaaag gaagtcaaaa accaaaacta 1260
 ttgtggagcc accgaggaaa aggcagacaa agaccaaaaa tatagtggag ccaccaagga 1320
 aaaggcagac aaagaccaa aatatagtgg agccactgag gaagaggaag gcgaaaacca 1380
 aaaatgtatc tgtgacacct ggacataaga agcgtggggc ttcaaagaag aaacccggtg 1440
 cagcaaaagt tgaaaaacgc aagactagga ctctaaatg caaagtccct ggatgtttct 1500
 tgcaagacct tgaaaagtca aagaaatact ctggaaaaaa tttaaagcga aataaggatg 1560
 aattggttca gagaatctac gacctgttta acagatccgt ctgtgataaa aagctgccag 1620

```

agaaactacg cataggctgg aataacaaga tggtgaaaac tgctggctta tgcagcactg 1680
gtgagatgtg gtacccaaag tggcggcgct ttgccaagat ccagattggc ttgaaagtct 1740
gcgactctgc agaccgaatc cgggatacct tgatccatga aatgtgccat gctgcctcct 1800
ggctgattga tggatatccat gattctcatg gtgacgcacg gaagtattat gccaggaaat 1860
ccaacaggat acaccgggag ctgcccaggg tcacccggtg ccataactat aagattaact 1920
acaaggtcca ttatgaatgt actggatgca aaacgaggat tggctgctac accaaatcgt 1980
tggacaccag ccgcttcacg tgtgccaaat gcaagggggtc tctgggtcatg gtgccattaa 2040
ctcagaaaga tgggaccggt attgtgcccc acgtgtgacc atttgctgtg tatgtgcaga 2100
agtattatag aaaaattatg caggagatgg ctaggattag ccttggggat gtgatgaaaa 2160
cacttggcag gaattacaag gcaatgaaga attcttaagg ttatcttaga gtatattaat 2220
gtgagctata tcctttactg gtaagaagtt ttagaaaagt ttgttttgtg aagttaggaa 2280
tattagaatt taggtactgt taagtaagta atgttagaat ttaagattca tgttattaac 2340
gatgattgac cttaaataagg gactctattg ctaaccattc tgtgcccttg acagggtatt 2400
tctgaagccc ttgggatcta ccttgggtct tacttgagtt ccataattttt cacatgtaga 2460
acaaaatgca aaagaaaagt gagttttcaa gagtggcagg ttgagagagg agaatgctgg 2520
aaagaggaca agtttgagag gcaacactta aacactaggg ctactgtggc atctatgtag 2580
acaggaaaga caaacgtgtt tcataaaatt cgttggtgat ggtattgatt gaaactatct 2640
gagccatgta atcaaaaaat aaaagttttc tgcatacaaaa aaaaaaaaaa aa 2692

```

```

<210> 552
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<400> 552
tttttttttt tttttttttt tttttttttt ttccttttac aaaatataaa tttattatga 60
aaacctggaa ggataatcca aggaaggtaa aaaaagaaaa aaggaggcca ccaaaaaaag 120
gcaggaagga gaggaaaaga aaaaaagaca aagaggagat gagagaaaaa aatccagttc 180
agcacaacaa aagtgcaaaa gctcacctac ccaaattggc ttaaagcctc gttgtgtaat 240
cgtgtcagaa aacaaagcat actgacacat agggctttac ttcccatcca cttgagtttt 300
aagaggtaaa ttaaaaagct ccttgggaag gggacatgag gttgttcaaa aaccaacaa 360
agaaaattaa aaaaaaaga gagagagaaa 390

```

```

<210> 553
<211> 4314
<212> DNA

```

<213> Homo sapiens

<400> 553

gaacagattc atgggtgatt tagcctatct gtcccaggcc agcgtggctg agtgtgctgg	60
ctggaggcct ctctctctgc ttcgagggtg gctgagatcc accccggaaa ccggcaggat	120
gaagggggca agtgaggaga agctggcatc tgtgtccaac ctgggtcactg tgtttgagaa	180
tagcaggtat gggcagctgg ggtgggaggg tcaccatggg gggctggcag ccacctcca	240
gcctttctgg cagctctctc cctgggcccct gccccggacc ctctctctgc aggggcagcc	300
ccgcgttcct cggtcacgga ttccttgagg catgggagag tgtcgggtggg acaccaggag	360
ccaggcaggg gtgagagtgc cagtgtgtgt tgggagagtc cagacagggtg tggttacgag	420
caagcatggg cagaccaaag cctgtgtgtg ggcacaggac cccaccaggt gcctgccagc	480
acctctcaga aaaggtagct gatactcacc aagaatttac gccctatgat taggataacc	540
atataattta tcattcagca cacaattgaa actgaaagta aatgccaaat aaaatgtggg	600
ggttgtgggg gaggcattac aggtaaagct gggaccgtat gaggcaaacc aggatgtacg	660
ggcagcatcc tgatggggta ctccctactc taagttcatg tccttactta ttttaatttag	720
tcacgaaca gcctaacagg ggtagattct gtttctgttc ccgtcttata gatgaggaaa	780
tggagacaca gagagggtgag gatgccaaagt gctttaagta tctggggcaa tgctggggcg	840
tctgtctgga gggaaaaggc tgggccagat gcgtggagtc attggtagcc ctgggagcat	900
gtgtgtttgt gtgtgtgcgc gtgtgtgtat gtgtgtgttg tgtgttatgt gtggcatcaa	960
tccattctgc aggcatttct taagctcagg actgtgttag gggctgtccc aggtaggggt	1020
ttctggaaat agactcagac agaggtttgc ctccaggtgat ttatcaggga gagcttttgg	1080
gaacaacagc tgtgggtgtg agggaagcag ggccgggcag ggggagatgc tgaactgcag	1140
tgcacctgcc acagaggcct cagcctgtcc caggagctc tggagctggg atgcctctcg	1200
gttgttccag ctgaggaaga gggctgggta tttgtatctc catgtggact ggacaagaga	1260
ctctgggtga ggcagctctc tcttcagag agtgattccc agagaggac tcagccaata	1320
aattaccggg cagccccag tactaccagt agctgggtggg gatggtgtgg ggaggcctca	1380
ttcctgaagg agggacatgg gtggcacagc acagcatcct acaggaactg tagaggatga	1440
agaagggttt cagtatttgg atgctgagct catcgaataa ctatgatgca aggtcataga	1500
cagtagatgt ctaggaatg gcccgatgc tgtattgagg gcaactcatg caggcaatgt	1560
ttcctgtagg cttcagggtg gagatggcat agatgtagac ctagaagtct tcaacttcct	1620
gagctgggtg attctccct gcctctcccg ggatctttgc caagctcgtc ctgttcagca	1680
ccaagacag ctcttgggtg ccgccttcct ggcccaccac ccccttgggt gtgggtggat	1740

ggtaccacct cactcaacat gcttgacgtg gactaggcac acctgggtgg agccccctcag	1800
catgctgtgc tctgcccagg caataaccct ggcaggagtg ggcagccctt agacgggagt	1860
taggtcccag caggcatcaa gaggggtgaga gccactcctt actgagttag gggacccata	1920
ccaactgcct tggcctgggc ttccttatga ggtctccagc acctcagctg atctgaaact	1980
gaggggcaaa gaggaaacag aagctggcca ggggccctag aacagaaatg cagaacctga	2040
aaccaaagt agaacagaaa gcctgagaac cagctacgcc catgagctgc agacccatgg	2100
gctgagaaac cagggactgg ggtgccaggg aggggtggga gagcctggga gtagccacac	2160
agcactaggt cccaatgctt tcgctgccac aaaccaatt gtgtcacttg gggcaagtca	2220
ctttgactcc gcggacctgt ttctccttta ctcaaaggg gaggggagg ttagagtga	2280
ggctcaggaa gcagtcgcct gatttgaatc ccacctctgc cacttccgag ccgcatgtta	2340
ctcatcctgt ccagacctca gtttccttga gtgcaaaata tgggtaatga aaacctttct	2400
cacggagttt tggagatttc gtatttgttt ggccttccat ttctggcct gtctttctca	2460
taaggatgcc tgccctgttc tgtcatcaca agcccttcca caccaagggc aacgttgggt	2520
gtattcatca aggggtgggc ctgttgctta aggaatttga ctggcttgca gaaccagta	2580
cacagggtaa taaaggtagc ctacgaaggc ccgtccctgg gagaacagag catctgctgc	2640
tgggctggct ctccctgctt ctggacgtgt ggaggatgtc gatcccatg agaagcccca	2700
gcttttgtag gcctgctctc actttatatt gttctgtggc tcctaccttc ccttgatgta	2760
taggttactg atgtggaaac tgaaaacaga ggtgaggtcc aaaggtagg ataaccagg	2820
gggtaccact caaaaacccc tatatacaga aaggattcct ggacactgtg gcttcatttt	2880
aaacaaggaa gtatgcagtt cccagaaaa taaaatatag tccacctga ctcatthtga	2940
acactgagtt ccctccaaga atgtgttggg agagaagtga aagtcttact cagcatgttc	3000
ccaaagaaag ccaggcacc agggggccct gcactgggga tttgcaccag gcaacccaaa	3060
tccacaccag ggacttgctg ctgttttccc tgttctccag ggaggaagcc ctcaggtctg	3120
tctcttctcc tcaggacccc agaagcagca cccagaggcc agaggctaga ggacgtgcat	3180
caccgcctg agtgcaggcc tcccgagtcc ccaggaccac gggagaagac gaatgtcggg	3240
gaggccgtgg ggtctgagcc caggacagtc agcaggaggt acctgaactc cctgaagaac	3300
aagctgtcca gcgaagcctg gaggaaatct tgccagcctg tgacctctc aggatcgggg	3360
acgcaggtgc ctgagggctg aggtagaggt gtggggtgct ggggtgggga gctctccctg	3420
acctcacctc cacacatgct ttctagcca gagccagcag tccccagggt gggggtatgg	3480
tgtgatcaga ggtcagctgg gagctagatt tccccatgct taatggcctt tgattcacta	3540
actgcctgct acgcaccgtg ctggattact tcgcaggtcc ctctgttagg agttttttgg	3600

acaaggaagt tgaaacacag ttttaaggaa cttattcaag gccacacagc ttggaacagt 3660
 ctccatcttg tgaacctaat actcttctca ggtggggcct cagtttacct actggaggag 3720
 acaacaatct caacctagaa atagaggtct gagtgtgaac tgcctgccc ttagactaaa 3780
 gccagtcctg atctcttctg tggcttgagc ttttctcatc tgcagagttc aagggttggc 3840
 atgcagatac tgtgcaccca aattccctgg agtcacatcc cagcacgtct gcttactaac 3900
 tgtgtgtcct tgggcaagtc acttgagtct ctttgtgcca gtttcctcat ttgtaaaatg 3960
 gggatagtgg ttatagtaat gcgtcctggg tttcaatcgc tgctgaacaa acctatcaaa 4020
 aatgtagcgg ctggccgggt gcagtaactc acgcctgtaa tcccagcact ttgggaggcc 4080
 gaggtgggca gatcacctga ggtcaggagt tcaagaccag cctggccaac atagggaac 4140
 actgtctcaa ctaaaaatac aaaaattagt tgggcatggt ggtgggcgcc tgtaatccca 4200
 gctactcagt aggctgagac aggagaatca cttgaatcca ggaggaggag gttgcagtga 4260
 gccgagattg cgccactcca ctctagcctg ggtgacagag cgagactctg tctc 4314

<210> 554
 <211> 689
 <212> DNA
 <213> Homo sapiens

<400> 554
 aacgtctcaa ctgtaaactc tgggcacgcg gctagcgcca ggtcctctcc agccctaaca 60
 ttctgtgatt ctaaacttgt ctgatttgtc tcatatgttg caaggctcgt agcaaaaaga 120
 aaaaaatact ccataactat ttaacaggaa ttagctaaag cacagctcta gagagagaga 180
 cacacacaca cgtttcaaat aaccgaaca ctagaacctg gtgaatttta tacctttact 240
 aaactttagc gattatttgt ttctttcgta acaaagggtta ttgattagat ttagtgctga 300
 aaaaaaccaa caacgtgcgc ttcggtcatt tgtcttatgg aggaaacata aatctataaa 360
 tcttctcctc gtctctaaga aataaaactc tcttcatttc caaagtaaaa aaaaaaaaaat 420
 tggcaaaata ccaaaaagggt caaaaaaaaaa actcgagggg gggcccggtg cccaattcgc 480
 cctataggga gtcgtattac aattcactgg ccgtcgtttt acaacgtcgt gactgggaaa 540
 accctggcgt taccactt aatgccttg gagcacattc ccttttcggc agctggcgta 600
 atagcgaaaa ggccgcacc gatcgccctt tccaacagtt gggcacctg aatggcaaata 660
 ggcaaatttg gagcgctaata aatttgta 689

<210> 555
 <211> 4828
 <212> DNA
 <213> Homo sapiens

<400> 555
 cactgttcct acagcaatcg gtcagttgtg ggagtgcctg tccactacca gaaaagacac 60
 ccagaaataa aggttactgc caaatatatac agacaggctc ctcccacagc tgcaatgatg 120
 agaggggtcg aaggggcccca aggtcctccc cggccacccg ccccatatac acagctgaac 180
 cgaagcagct ctgagagaga tggccctcct gtggagaatg agatgttctt ttgccagcac 240
 tgtgattatg ggaaccggac ggtcaaaggg gtactcattc attatcagaa gaagcaccga 300
 gacttcaagg ccaatgcaga tgtgatccgg cagcatacgg ccaccattcg aagcctctgc 360
 gaccgaaatc ggaagaagcc tgccagctgc gtgcttatct cccctctaa tctggagcgg 420
 gacaaaacga aactccgagc actcaaagt aggcagtgc catatacctc cccctacttc 480
 tatgcactga ggaagcatat caagaaagac cccccgccc tgaaagccac agtcacgtcc 540
 atcatgcatg gggcatttct agatggcttg atagaagctg gctaccactg cgagtgggtg 600
 atctactccc atacggagcc caacggtttg ctctgcatt accgacggag gcatccagaa 660
 cactatgttg attacaccta catggctact aaactgtggg ctgggcccaga cccatcccct 720
 cctctctca caatgccagc cgaagccaaa acctacagat gcagggactg tgttttcgaa 780
 gctgtttcca tctgggacat cactaatcac taccaagcat tccaccctg ggccatgaat 840
 ggtgatgagt cagtgcctact ggacatcatc aaggagaaag atgctgtgga gaagcccatt 900
 ctttcatccg aagagttgac aggccctgtg aattgtgcaa acagtatacc cacccttttc 960
 ccggagcagg aagctgaatg tccagaggat gcaagactgt cccctgagaa aagcctgcag 1020
 ctagcttcag ccaaccccg ccatatcctc accccatacc agtgcacggg atgccaatct 1080
 gagtataaca acttgacagg ccttctcact cattatggga agaagcacc tgccatgaaa 1140
 gtgaaggctg ctgactttgc ccaggacatt gacatcaacc cagggtgccg ctacaaatgc 1200
 aggcattgcc catacatcaa ccccgcctc cacggcgtag tgaccacta ccagaagcga 1260
 caccgctcca tcaagggtgac cgctgaggac tttgtgcacg acgtagagca gtctgtgac 1320
 atatcccaga atgacgtgga ggagacgagc aggatcttca agcaagggtg tggcgccctac 1380
 cgggtgcaaac tgtgtccgta cacacacggc actttggaga aactaaaaat ccactacgag 1440
 aagtatcaca atcagcctga atttgatgtc ttttcccagt cggccccgaa gctgccagtc 1500
 cccctcgagc ccgagatgac cactgaagtg agcccttccc aagtctccat cactgaggag 1560
 gaggtgggag aggagcccg gtccacttct cacttctcta cctccacct ggtctcccac 1620
 actgtgttcc ggtgccagct ctgcaagtac ttctgtcca cgaggaaggg gatcgccagg 1680
 cactaccgca tcaagcaca taatgtccga gccagccag aaggcaagaa caacctcttc 1740
 aagtgtgccc tgtgtgccta caccaacccc atccgcaaag gtctggcagc ccactaccag 1800

aagcgccacg	acattgatgc	gtattacact	cactgcttgg	cagcctccag	gaccatcagc	1860	
gacaagccca	acaaagtgat	catcccatcc	ccgcccgaagg	acgactcccc	tcagctgagc	1920	
gaggaactcc	ggcgggcagt	ggagaagaaa	aagtgtctct	tgtgtctctt	ccagtcgttc	1980	
agcaagaagg	gcatcgtgtc	ccattacatg	aaacgccacc	caggggtgtt	cccaaagaag	2040	
cagcacgcc	gcaagttggg	gggctacttc	acggccgtct	atgcagatga	gcatgagaag	2100	
cccacactga	tggaagaaga	ggagagaggc	aactttgaga	aagccgaggt	ggagggtgaa	2160	
gctcaggaaa	tcgagtggct	cccattccgc	tgcatcaa	gcttcaagct	gtccttttagc	2220	
actgcagagc	tgctgtgcat	gcattacact	gaccaccaca	gtcgggacct	aaagagggac	2280	
ttcatcatac	tgggcaacgg	ccccgccttg	cagaactcca	cctaccagtg	taagcactgt	2340	
gatagcaa	tgcaaagcac	agccgagctg	acctcacact	tgaacattca	caatgaggaa	2400	
ttccagaagc	gtgccaaacg	tcaggagagg	aggaaacagc	ttttgagcaa	gcaggaatat	2460	
gcagatgggtg	cttttgcaga	tttcaa	gagaggcctt	ttggtcactt	agaagagggtg	2520	
ccaaagatca	aggagaggaa	agtgggtgggc	tacaaatgta	aattctgtgt	ggaagtgcac	2580	
ccaacgctcc	gagccatctg	caatcacctc	cgaagcagc	tccagtatgg	caatgtccca	2640	
gctgtgtcag	ctgctgtgaa	ggaggcggat	gaccctgccc	acttattcct	ggatggattg	2700	
gaagcagcca	aagacgcaag	tggcgccctg	gtgggcccggg	tggatgggtga	acactgcttg	2760	
cttgatggaa	tgttgaggga	tgaacccgg	ccggggggat	accattgcag	tcaatgtgac	2820	
agagtcctga	tgtccatgca	ggggctgcgt	tctcatgaga	ggagccacct	ggccctggcc	2880	
atgtttaccc	gcgaggacaa	gtacagctgc	cagtatagct	cgtttgtttc	tgctttcagg	2940	
cacaatttgg	atcgccatat	gcaaaccac	cacggacacc	ataaaccatt	ccgatgcaaa	3000	
ctctgtcct	tcaagtcctc	ctataacagc	cggctgaaaa	cacatatact	caaagctcat	3060	
gctgggtgagc	atgcctacaa	gtgttcttgg	tgctcattct	ccaccatgac	aatcagccag	3120	
ctgaaggaac	actccctcaa	ggtccacgga	aaagccctga	ccctcccag	gccacggatc	3180	
gtcagtctcc	tctcctcaca	ctcccaccac	tcctcccaa	aagctacccc	ggctgaagaa	3240	
gtggaagact	ccaatgactc	atcatattca	gagccccag	atgttcagca	gcagttgaac	3300	
cactatcagt	cagctgccct	ggcaaggaac	aacagccgtg	ttagccctgt	gcctctttct	3360	
ggggctgctg	ctggcactga	gcagaaaact	gaagccgtgc	ttcactgcga	attctgtgaa	3420	
ttctcctccg	gctacatcca	gagcatcagg	cgtcattacc	gggacaagca	tggtgggaag	3480	
aagcttttca	agtgcaaaga	ctgctccttt	tacacaggct	ttaa	atctgc	ttttactatg	3540
cacgtggaag	ctgggcactc	agcagttccc	gaggagggcc	ccaaagatct	tcgctgtcct	3600	


```

ctctgcctct atcacaccaa atacaagcgc aacatgattg accacatcgt gctgcactga 3660
gaagagcgtg ttgtcccat tgaagtttgc cgggtccaaac tgtccaaata cttgcaggga 3720
gtagttttcc gctgtgataa gtgtaccttc acctgctcca gtgatgagag cctccagcaa 3780
catatagaaa agcacaatga actgaaacct tacaaatgcc agctctgcta ctatgagacc 3840
aagcacacgg aggaactgga cagccacctt cgggatgagc ataaggtaag ccgtaacttt 3900
gagctggttg gacgggttaa cttggatcag ctggaacaga tgaaggagaa aatggagagc 3960
tccagcagcg atgatgagga caaggaagaa gaaatgaaca gcaaggctga agacagagag 4020
ctgatgagat tttctgacca cggggctgct cttaacactg agaagcgttt tccatgtgaa 4080
ttttgtggac gggcgttttc acagggctct gagtgggaaa gacatgtgct gagacacggc 4140
atggcattga atgacaccaa gcaggtgagc agagaagaaa tccacccaaa agagatcatg 4200
gagaacagtg ttaaaatgcc ctccatagag gaaaaggaag atgacgaggc cattgggata 4260
gacttttccc taaagaatga aacagtagcc atctgtgtag taactgccga caaatctctc 4320
ctggagaatg cagaggccaa aaaagaatga gcgtttggtg aaattcttaa tcaaacctta 4380
cttgaacagt gatgaaaaag tgggagggct ggctttggct gagaaggag ggacagaaaa 4440
gagaagacag aacaaagctg ctttttagga ctgaacaatc tattttcaaa gcactggtac 4500
ctgtgtgagt gagtatgtaa attaaagtta tttaaatggt tggaatatgt ggctcctttt 4560
ccatcactac atcttttctt ccggatcttc atcatggaag tttcatttgt tgcggaatat 4620
ggaagcacct cccaatggta cgggtgcacc tgtggtggtc ttggacagta tgtggaaaca 4680
gaagctccat gacggtagaa gacttctcat tggggagcaa cttttttacg cacaactttt 4740
ggtgcgtttt tctagtttta ataccttaag ctttttcaag acctaaactgc agccgctttg 4800
ggaaaaaaaa acaaaaaaca aaaaacag 4828

```

<210> 556

<211> 279

<212> DNA

<213> Homo sapiens

<400> 556

```

gggggcgccg tccatggaga agccggatgt ggcgaataca caccctgggg cacattgatc 60
agtgtctacgc atgagatggg gggcagcgtg ggggccgtat acaacggcga gacactttaa 120
ccaggtgtag atcaagaccg agatgatcgg ccactacctg ggcgagatct ccatcaccta 180
ctagcccgga aagcatggcc ggcccgtgat caccggccacc cacttgtcca gttcatccc 240
tctgaagtaa tggctcagct aataaaggct cacatgact 279

```

<210> 557

<211> 390
 <212> DNA
 <213> Homo sapiens

<400> 557
 tttttttttt ttttttttgc ctgctggcaa ttccaagaac atcactgcta cattgagcaa 60
 ctatccatct ttaaagagcc agcagagcaa aacaaaataa atctcttttc caaagccagg 120
 ataaccaaga agacttcctt caaaaagcag gggactggga aaaggggaaa agggaaggaa 180
 agagataaag taaagctttt ccaaattttg gctttttgct cctattccct ctgcctgttt 240
 tgaaaactta aggataagca atgacattag cagtgtcttt ggtatctaaa ccaaattcca 300
 cttaagttct gtgggatcat ttatttaaaa aaatagcctt tctagagata cagtctatat 360
 ccaaactcag ggagccaaga aagtttgtcc 390

<210> 558
 <211> 1227
 <212> DNA
 <213> Homo sapiens

<400> 558
 cgtagcggaa gttactgcag ccgcggtggt gtgctgtggg gaaggagaa ggatttgtaa 60
 accccggagc gaggttctgc ttacccgagg ccgctgctgt gcggagaccc ccgggtgaag 120
 ccaccgtcat catgtctgac caggaggcaa aaccttcaac tgaggacttg ggggataaga 180
 aggaagggtga atatattaaa ctcaaagtca ttggacagga tagcagttag attcacttca 240
 aagtgtaaaat gacaacacat ctcaagaaac tcaaagaatc atactgtcaa agacagggtg 300
 ttccaatgaa ttcactcagg tttctctttg agggtcagag aattgctgat aatcatactc 360
 caaaagaact gggaatggag gaagaagatg tgattgaagt ttatcaggaa caaacggggg 420
 gtcattcaac agtttagata ttctttttat ttttttttct tttccctcaa tcctttttta 480
 ttttttaaaa tagttctttt gtaatgtggt gttcaaaacg gaattgaaaa ctggcacccc 540
 atctctttga aacatctggt aatttgaatt ctagtgtcga ttattcatta ttgtttgttt 600
 tcattgtgct gatttttggg gatcaagcct cagtccctt catattaccc tctccttttt 660
 aaaaattacg tgtgcacaga gaggtcacct ttttcaggac attgcatttt caggcttgtg 720
 gtgataaata agatcgacca atgcaagtgt tcataatgac tttccaattg gccctgatgt 780
 tctagcatgt gattacttca ctctggact gtgactttca gtgggagatg gaagtttttc 840
 agagaactga actgtggaaa aatgacctt ccttaacttg aagctacttt taaaatttga 900
 ggggtctggac caaaagaaga ggaatatcag gttgaagtca agatgacaga taagggtgaga 960
 gtaatgacta actccaaaga tggcttcact gaagaaaagg cattttaaga ttttttaaaa 1020
 atcttgtcag aagatcccag aaaagtctta attttcatta gcaattaata aagctataca 1080

tgcagaaatg aatacaacag aacactgctc tttttgattt tatttgtact ttttggcctg 1140
 ggatatgggt tttaaattgga cattgtctgt accagcttca ttaaaataaa caatatttgt 1200
 aaaaatcaaa aaaaaaaaaa aaaaaaa 1227

<210> 559
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, t or u

<220>
 <221> misc_feature
 <222> (340)..(340)
 <223> n is a, c, g, t or u

<400> 559
 ngacaaatag actcgcctaa gagggccttt ctctccaagc cctcgccagc acaggctgtg 60
 tcactttctt aggtggcacc taccgtctgt tgcacacttg ctgcagatga tttggcacag 120
 gatgtcgctt cagaaaacct tgtaggaagc cgtgagtcgt taccgtcccc atttcacaga 180
 caggaaagtg caggccttag atgcactgcc tgataccctg tggcccccg cgttcctagac 240
 agatacactg cctggtacac tgtaccccc ccccccgct atcgtttgca agctgggggt 300
 gaacccctgc aattcaatag acaaggttcc cccttgagtn agccccccat ctgcttaact 360
 gagggcttgt cctcggttat aaatgtctgg gtgggggtgg gcactgctgg ctgcagctgt 420
 caggactggg aatgctgaac ctgcactgag gg 452

<210> 560
 <211> 1197
 <212> DNA
 <213> Homo sapiens

<400> 560
 gtagcgggaa ccatatacgg ctaggtacga ggctgggtgg ctaggcgcac ggctccccgc 60
 gggaggaagc gtaaggctga ggccgcggtg gtcgccgtag ccgagaagcg agagaagctg 120
 gcgaacggcg gggaggggaat ggaggaggcg accgttggtta tcgagcattg cactagctga 180
 cgcgtctatg ggcgcaacgc cgcggccctg agccaggcgc tgcgcctgga ggccccagag 240
 cttccagtaa aggtgaaccc gacgaagccc cggaggggca gcttcgaggt gacgctgctg 300
 cgcccgggac ggcagcagtg cggagctctg gactggggat taagaagggg ccccatgca 360
 aactcaaatt ccctgagcct caagaggtgg tggaagagtt gaacgcaagt acctgtcgat 420

```

agggagcatt gggtagaagc cctcattgct gagctttgtg ttccctgggtg atgtgggacc      480
attaatgatg gaacatggcc aaatttcagt cattgatcct gaagccatgg tttcttccccg      540
tgccagaaat gacaggctca gttatgaggc aaccctctta gtagggcatt gtaaaacgta      600
cctggattgg ggtttactac caccgtttga cacttacggt acacacaaac acacaaaaaa      660
aaacgttggg gggcactcta tagtgccgag gggcgcgagc aacaccgcgg ttacatgaac      720
gtggcacatt ggggccaata ggggtgttccc ctggacgcac agtttctttg gtacacaggg      780
tggggtaaac tctggcgggg acaccctta atagggagag ggcgagaata aattttcgga      840
taaacgcagg gttaccttgt atagacatct tgactgtaca acaagagggg aacgaaaacg      900
aaagcacaaa acaaaggaga aaaacgacga ctgggagaaa aggaggagga gagggaggag      960
gagagggaga gcagaagaag cgagaggagc aggaaaagag gaggaccacc caaagagacg     1020
aggaaacaag agaggagaga gaacagagga taacgcgaaa gaaaggaaga agcacgatgc     1080
aaacagaaac aagacgagac agagtgcgag agcaggagag aggggagaaa agaaggagag     1140
gagaggagag aggagaagaa agcaagagga aggggacgca gacagaaggg caggacg       1197

```

```

<210> 561
<211> 764
<212> DNA
<213> Homo sapiens

```

```

<400> 561
ggcacgagcc cggcagtgca gctgccgcta ccgccgccct ctgcccgcgc gcccgtctgt      60
ctacccccag catgagcggc ctgcgcgtct acagcacgtc ggtcaccggc tcccgcgaaa     120
tcaagtccca gcagagcgag gtgaccgcaa tcctggatgg gaagcgcac caataccagc     180
tagtggacat ctcccaggac aacgccctga gggatgagat gcgagccttg gcaggcaacc     240
ccaaggccac cccaccccag attgtcaacg gggaccagta ctgtggggac tatgagctct     300
tcgtggaggc tgtggaacaa aacacgctgc aggagtccct gaagctggct tgagtcaagc     360
ctgtccagag ttcccttgct ggactccatc accacactcc cccagcctt cacctggcca     420
tgaaggacct tttgaccaac tccctgtcat tcctaacctt accttagagt ccctcccccc     480
aatgcaggcc acttctcctc cctccttctc taaatgtagt cccctctcct ccatgtaaag     540
gcaacattcc ttaccatta gtctcagaaa ttgtcttaag caacagcccc aaatgctggc     600
tgccccagc caagcattgg ggccgccatc ctgcctggca ctggctgatg ggcacctctg     660
ttggttccat cagccagagc tctgccaaag gccccgcagt ccctctccca ggaggaccct     720
agaggcaatt aaatgatgtc ctgttcaaaa aaaaaaaaaa aaaa                          764

```

<210> 562
 <211> 2661
 <212> DNA
 <213> Homo sapiens

<400> 562

```

gctcccgggg ccacgggatg acgcctcctc cgcccggacg tgccgcccc agcgcaccgc      60
gcgcccgcgt ccctggcccc ccggtctcggg tggggcttcc gctgcggctg cggctgctgc      120
tgctgctctg ggcggccgcc gcctccgccc agggccacct aaggagcgga ccccgcatct      180
tcgccgtctg gaaaggccat gtagggcagg accgggtgga ctttggccag actgagccgc      240
acacgggtgct tttccacgag ccaggcagct cctctgtgtg ggtgggagga cgtggcaagg      300
tctacctctt tgacttcccc gagggcaaga acgcatctgt gcgcacgggtg aatatcggct      360
ccacaaaggg gtccctgtctg gataagcggg actgcgagaa ctacatcact ctccctggaga      420
ggcggagtga ggggctgctg gcctgtggca ccaacgcccc gcaccccagc tgctggaacc      480
tggtgaatgg cactgtggtg ccacttggcg agatgagagg ctacgcccc ttcagcccg      540
acgagaactc cctggttctg tttgaagggg acgaggtgta ttccaccatc cggaagcagg      600
aatacaatgg gaagatccct cggttccgcc gcatccgggg cgagagtgag ctgtacacca      660
gtgatactgt catgcagaac ccacagttca tcaaagccac catcgtgcac caagaccagg      720
cttacgatga caagatctac tacttcttcc gagaggacaa tcctgacaag aatcctgagg      780
ctcctctcaa tgtgtcccgt gtggcccagt tgtgcagggg ggaccagggt ggggaaagtt      840
cactgtcagt ctccaagtgg aacacttttc tgaaagccat gctgggtatgc agtgatgctg      900
ccaccaacaa gaacttcaac aggctgcaag acgtcttctc gctccctgac cccagcggcc      960
agtgaggagg caccagggtc tatggtgttt tctccaaccc ctggaactac tcagccgtct     1020
gtgtgtattc cctcggtgac attgacaagg tcttccgtac ctccctactc aagggtacc     1080
actcaagcct tccaacccg cggcctggca agtgccctcc agaccagcag ccgataccca     1140
cagagacctt ccagggtggc gaccgtcacc cagaggtggc gcagaggggtg gagcccatgg     1200
ggcctctgaa gacgccattg ttccactcta aataccacta ccagaaagtg gccgtccacc     1260
gcatgcaagc cagccacggg gagaccttcc atgtgcttta cctaactaca gacaggggca     1320
ctatccacaa ggtggtggaa ccgggggagc aggagcacag cttcgccttc aacatcatgg     1380
agatccagcc ctccgcgcgc gcggctgcca tccagaccat gtcgctggat gctgagcgga     1440
ggaagctgta tgtgagctcc cagtgggagg tgagccaggt gccctggac ctgtgtgagg     1500
tctatggcgg gggctgccac ggttgccctc tgtcccgaga ccctactgc ggctgggacc     1560
aaggccgctg catctccatc tacagctccg aacggtcagt gctgcaatcc attaatccag     1620
ccgagccaca caaggagtgt cccaacccca aaccagacaa ggccccactg cagaaggttt     1680

```

```

ccctggcccc aaactctcgc tactacctga gctgccccat ggaatcccg cagccacct 1740
actcatggcg ccacaaggag aacgtggagc agagctgcga acctgggtcac cagagcccca 1800
actgcatcct gttcatcgag aacctcacgg cgcagcagta cggccactac ttctgcgagg 1860
cccaggaggg ctctacttc cgcgaggctc agcactggca gctgctgccc gaggacggca 1920
tcatggccga gcacctgctg ggtcatgcct gtgccctggc cgcctccctc tggctggggg 1980
tgctgcccac actcactctt ggcttgctgg tccactaggg cctcccgagg ctgggcatgc 2040
ctcaggcttc tgcagcccag ggcactagaa cgtctcacac tcagagccgg ctggcccggg 2100
agctccttgc ctgccacttc ttccagggga cagaataacc cagtggagga tgccaggcct 2160
ggagacgtcc agccgcaggc ggctgctggg ccccgaggtc gcacggatgg tgaggggctg 2220
agaatgaggg caccgactgt gaagctgggg catcgatgac ccaagacttt atcttctgga 2280
aaatattttt cagactccct caaacttgac taaatgcagc gatgctccca gcccaagagc 2340
ccatgggtcg gggagtgggt ttggatagga gagctgggac tccatctcga ccctggggct 2400
gaggcctgag tccttctgga ctcttggtac ccacattgcc tccttcccct ccctctctca 2460
tggtgggtg gctggtgttc ctgaagacc agggctaccc tctgtccagc cctgtcctct 2520
gcagctccct ctctggtcct ggggccaca ggacagccgc cttgcatgtt tattgaagga 2580
tgtttgcttt ccggacggaa ggacggaaaa agctctatct ttatgttagg cttatttcat 2640
gtatagctac ttccgactgc c 2661

```

```

<210> 563
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<400> 563
ttctccaggc tggccctcag cctggcgccc cttccgcaga catccctaga aaaagaacta 60
acgcggcctt ctccgagccc agggctggag taggaagtac ccgccctccc gaacgcgagg 120
tcctggctgc gcattggctg cgaaggccgt cagtactccg gagggcggag cctcccggca 180
cccagcggaa tttcaggccc gcacctccgg gagggctcctc cgggctcccc ggcttctttc 240
ctccccctta aactacccc cgcacacaca ccggccccga gaaggcaact agcctcctca 300
aacggttcct ttgccttttt atttcgcagg ccttcctctc acccataca gttactgccc 360
ctttgactcc tccgagaggc aaagcttttt caaagctcta acacctctcc cctaccccag 420
caagtcccc gtgcgagacc aaatagagga tgccgctggt ctaagagtga agcaagctgt 480
ggactggatc tcgccgaggg agagaga 507

```

<210> 564
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 564
 gctttaaaag ttatctttta ttaatatatt gtgtgtgcac cttgtcttcc tcaggcttag 60
 aattccccag gtgctgggaa cttgagcctg cttcccttcc ctctgtcttc cataattcat 120
 tccttaaatgc aacatctcct gagggcctac tttgtgtcag aaactacatt atttgctagg 180
 ggtgcagagc ccaggaaggc acagggtgctt ccctcaagca gttctgaaat gaatagggta 240
 cagataagta aacccccctc tcctatccag tgagtagagt tgtgtacaag gggacacaaa 300
 atgagctctg gagacttgct cccccaaaat gggagccatg gaccatcagc attggcatca 360
 cctgggagat caatagagat gcagaccctt gtaccatttc agttggagtg tgcatttgaa 420
 ataagatccc 430

<210> 565
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 565
 gctgaagtga aaacgagacc aaggtctagc tctactgttg gtacttatga gatccagtcc 60
 tggcaacatg gagaggattg tcactctgtc gatggctatc ttcttgggga cactgggtcca 120
 caaatcaagc tccaagggtc aagatcgcca catgattaga atgcgtcaac ttatagatat 180
 tgttgatcag ctgaaaaatt atgtgaatga cttggctcct gaatttctgc cagctccaga 240
 agatgtagag acaaaactgtg agtggtcagc ttttctctgt tttcagaagg cccaactaaa 300
 gtcagcaaatt acaggaaaca atgaaaggat aatcaatgta tcaattaaaa agctgaagag 360
 gaaaccacct tccacaaatg cagggagaag acagaaacac agactaacat gcccttcatg 420
 tgattcttat gagaaaaaac caccacaaaga attcctagaa agattcaaatt cacttctcca 480
 aaagatgatt catcagcatc tgtcctctag aacacacgga agtgaagatt cctgaggatc 540
 taacttgcag ttggacacta tgttacatac tctaatatag tagtgaaagt catttctttg 600
 tattccaagt ggaggagccc tattaaatta tataaagaaa ta 642

<210> 566
 <211> 4894
 <212> DNA
 <213> Homo sapiens

<400> 566
 cgaaaacgga gaaaccccggt gtccggcgag aggggctgtg acagtcggag tccaagctg 60
 cgggttcggct gctgccgaga actgcaaggt gtggaatatt tctggcttct agtccaatgc 120

caagtgtgtg acctgtggct acatgattcc ctgaaagata agaacaatgt tatgtttgggg	180
atattggtct ctgggccaac ctggtatcag caccaacctg caggggaattg tggctgagcc	240
ccagggtgtg gggttcatat ctgacagaag tgtcaaggaa gtggcctgtg ggggaaacca	300
ctctgtgttc ctgctggaag atgggggaagt ttacacatgt ggtttgaaca ccaaggggca	360
actggggccat gagaggggaag gaaacaagcc agaacaaatt ggagctctgg cagatcagca	420
tatcattcat gtggcatgtg gcgagtccca cagtctggcc ctcaagtacc gaggccagct	480
gttttcttgg ggtgcaggga gtgatggca gctaggactc atgactactg aggattctgt	540
ggcagtgcc aggttaatac aaaagctgaa ccagcaaaca atattacaag tttcctgtgg	600
caactggcat tgcttggtc ttgcggctga tggccagttc ttcacctggg gaaagaacag	660
ccatgggcag cttggcttag ggaaggagtt cccctcccaa gccagcccac agagggtgag	720
gtccctggag gggatccac tggctcaggt ggctgccga ggggctcaca gctttgccct	780
gtctctctca ggagctgttt ttggctgggg gatgaataat gccgggcagc tagggctcag	840
tgatgaaaaa gatcgagaat ctccatgcca tgtaaaactc ttacgcacgc aaaaagttgt	900
ctatattagt tgtggagaag aacacacagc agttctcaca aagagtggag gtgtgtttac	960
ctttggcgct ggttctgtg ggcaacttg acacgactcc atgaatgatg aggttaaccc	1020
tagaagagtt ctagagctga tgggtagtga agtaactcaa attgcttgtg gcagacaaca	1080
taccctagcc ttcgtgcctt cttctggact catctatgca tttggttgtg gagcaagagg	1140
tcaattagga actgggcaca cttgtaatgt taagtgccca tctcctgtca agggttactg	1200
ggctgcccac agtggccagc tttcagcccg agctgatcgc tttaaataatc atatcgtaa	1260
gcagatcttc tctggaggag accagacttt tgtactttgc tccaaatacg agaattatc	1320
tcctgctgtt gacttcagga ctatgaacca agcacattat accagtttaa taaatgatga	1380
aaccatagca gtttgagac aaaaactctc agaacacaac aatgcaaata caatcaatgg	1440
tgttggtcag atattatctt ctgcagcctg ttggaatgga agttttcttg aaaaaaaaaat	1500
tgatgaacat tttaaaacga gtcccaaaat ccctgggatt gacctgaact caactagggt	1560
gttatattgag aagttaatga actctcagca ctccatgatt ctagaacaga ttttgaacag	1620
ttttgaaagt tgtctgattc ccagttgtc aagctcacca ccagatgttg aagccatgag	1680
aatctattta atactacctg agtttccct actccaggat tccaagtatt atataacatt	1740
gactattccc ttggctatgg ccattcttcg gctggatata aaccccagca aagtactaga	1800
taactgggtg tctcaggtat gcccgaata tttcatgaag ctggtaaacc tctataaagg	1860
tgcagtcctt tatctactga ggggaagaaa gacattctta attcccgtac tgtttaacaa	1920

ttatatcaca	gcagctctca	aactcttgga	gaagttatat	aaggtaaadc	ttaaagtga	1980
gcatgtggaa	tatgatacat	tttacattcc	tgagatttcc	aatctcgtgg	acattcagga	2040
agactacctc	atgtgggttct	tgcataaagc	agggatgaag	gctagaccat	caataatata	2100
ggatactgta	acactttggt	cctacccttt	catctttgat	gccaagcca	agaccaaact	2160
gttacagaca	gatgctgaac	tacagatgca	ggtggcagtc	aatggagcca	acctgcagaa	2220
tgtcttcatg	cttctcacc	tgagacctct	gctggccaga	agcccttcc	tggtccttca	2280
cgttcgcagg	aacaaccttg	ttggagatgc	cctaagagag	ctgagcattc	attctgatata	2340
tgatttgaaa	aagcctctca	aagtaatctt	tgatggtgaa	gaagcagtgg	atgccggtgg	2400
tgttacaaag	gaattttttc	ttttgctggt	aaaagaactt	ttgaatccca	tctatggaat	2460
gtttacctac	tatcaagatt	caaactctct	gtgggttttca	gacacgtggt	ttgtagagca	2520
caactgggtt	cacttgattg	gtataacctg	tggactagct	atctacaact	ccactgtggt	2580
cgatctccac	ttcccatgg	ctctctacaa	gaagttactc	aatgtaaagc	ctggcttggga	2640
agacttaaag	gagttgtcac	ccactgaagg	aaggagtctc	caagagcttt	tagattaccc	2700
cggggaggat	gtggaggaga	ctttctgcct	caacttcacg	atctgccgag	aaagctatgg	2760
agtgattgaa	cagaagaagc	tgataacctg	gggagataat	gtaactgtgt	gcaaggataa	2820
caggcaggaa	tttgtggatg	cttatgtgaa	ttatgtcttc	caaactctcag	ttcatgaatg	2880
gtacacagcc	ttctctagt	gcttctctaa	ggtgtgtggt	ggcaaagtac	ttgagctctt	2940
ccagccttca	gaactgaggg	ctatgatggt	ggggaacagc	aactacaact	gggaagaact	3000
ggaagagact	gccatctaca	aggagatta	ctcgccaca	catccactg	taaaactatt	3060
ttgggaaaca	tttcatgagt	ttccattgga	aaagaagaag	aagtttctct	tgttcctgac	3120
aggcagcgat	cggattccca	tctacggcat	ggccagtctg	cagattgtca	tccagtccac	3180
agccagcggg	gaggagtact	tgccggtggc	ccacacttgc	tacaaccttc	ttgacctccc	3240
caagtacagc	agcaaagaga	ttctgagtgc	ccggctgacc	caggcccttg	acaactatga	3300
agggtttagt	ttggcctgag	gcttctcagc	ttgtccagta	tttcccttcg	ttcctcagt	3360
tccacattga	ggcctatata	gaaaatcatg	gggagtgatt	tctatttttt	tattgtctaa	3420
gtgggttggg	actttttaa	actgagcctg	gttgatgtgt	ttctgggatt	gtatagcagt	3480
aaacaacctt	tttgaaaaat	tagagggttg	ggatgggggtg	aaaaattggc	ccttgatgg	3540
gaggtgtttt	tgtttttgtt	ttaaaccaa	ctaccagta	ttccttgcac	ttgtgaatgt	3600
gttgcaactc	gctggatgaa	atggcagtgg	atttttaa	tttaatttcc	caaagtctc	3660
tctcagccct	gatgttttct	cacagtgtct	ccttgcctt	ctcttaactt	ctcatctctc	3720
tataagaatg	atttagactg	acctgtcctt	tttatctgc	gcatgagaga	acatcacctt	3780

cctctgtaca cttggaaatg cctctggcct gttgcagccc tcctttaacc caaaggagga 3840
 aaggactgct tcagaaactc ccaattccaa aaagctgagt ctgggtccat tattttggca 3900
 gaactcctaa gaatttatgg gagcctatat aaacatatct tgcttttaaa aagttcttga 3960
 gggaatagca actttcccat ggctgtgcct atttcctaga ccttttaaaa gatgtgcaga 4020
 gcagcttagc attcgttgca gctgagccta attttttctt gctcatcctt gtccctttga 4080
 caataagggt aattgataga cccaccacct cttgcactct cgcttttgga gcaagttgca 4140
 ttaactatct tgagtctcta tattgtccaa gaaaagtaga aataataaat ttactttccc 4200
 tttttctatc accttatgtc ctctaccatt ttctccttcc tcccttcctt tattttctcc 4260
 ttttcgtacc ctgtgtcctc cctgattttc ctttcgtttc ttctttatct tatcccatc 4320
 tctgttactt gactcagtg ctccttcctc tcctctcctt ctagtggatg catgcagcct 4380
 ttttttcaat ttttatctaa attgcaaaat ttttactcag attttttttc ctcttcctta 4440
 attgctaaga ttttaaggacg ttctttatta tgaaacttta tcacattcga aatgtttgtt 4500
 tacagtggga ttttaggggg gattgtgttt aaatcaaata tatgtatctt aaaaataatg 4560
 acatgctcaa ccttcctcat catggagtaa gaaaattcta catgattaaa gaatccatgt 4620
 aagtctaatt ttaaattcct agtaactaga gaaaagactt atttatataa aatgaagtat 4680
 ttatgaactg tgataaagca tcaaactctg atgaaggatt gtagatcttt gctttttctt 4740
 tttgttttta aaacttatct caattgctaa attggtagtt tttcagtcct tataaatata 4800
 ggattaaaaa tatatatata gttatatgaa atgtttatct tctatgtgtg tgcatatagt 4860
 tcaatattat gcaataaatt tgggtgtttta actt 4894

<210> 567
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 567
 aggtgaatga tgactacaat aacattgcaa ctatttcttt cctggcatag ggaggttaata 60
 agaaactaaa tgatcgcatg gtacatgctt gtattatata gatgggttta ggaatctata 120
 aagtatggag gtaggaagac accatatgtc caggatcaaa acattcctca tattgaggta 180
 gtctagttaa gctgtttcat gtagctgctt taggaagtgg tttaaggaag cttactccca 240
 cttcaagtta agcaccaaaag caatcactaa ttctggagca caggaagact gctatctcat 300
 cattcacctt tgcag 315

<210> 568
 <211> 2321

<212> DNA
 <213> Homo sapiens

<400> 568
 cttcctgaaa ggatctggag acaccagctc cacaagtcct ggtgtcttta aaaggatcag 60
 cttgaggaat aaggctcgtc tgagagctgt gacattcatc tgactctagt gaaagtccaa 120
 cagccactcc ctttttggcc tccaactggg caccatgagg gcctgcatct ccctggtatt 180
 ggccgtgctg tgtggcctgg cctgggctga ggaccacaaa gagtcagagc cattgccaca 240
 gctggaggaa gagacagaag aggccctcgc cagcaacttg tactcggcac ccacctcctg 300
 ccagggccgc tgctacgaag cctttgacaa gcaccaccaa tgctactgca atgcccgtcg 360
 ccaagagttt gggaactgct gcaaggattt tgagagcctg tgtagtgacc acgaggtctc 420
 ccacagcagt gatgccataa caaaagagga gattcagagc atctctgaga agatctacag 480
 ggagagacacc aacaaagccc agaaggaaga catcgttctc aatagccaaa actgcatctc 540
 cccgtcagag accagaaacc aagtggatcg ctgcccaaag ccactcttca cttatgtcaa 600
 tgagaagctg ttctccaagc ccacctatgc agccttcac aacctcctca acaactacca 660
 gcgggcaaca ggccatgggg agcacttcag tgcccaggag ctggccgagc aggacgcctt 720
 cctcagagag atcatgaaga cagcagtcac gaaggagctc tacagcttcc tccatcacca 780
 gaatcgctat ggctcagagc aagagtttgt cgatgacttg aagaacatgt ggtttgggct 840
 ctattcaaga ggcaatgaag agggggactc gagtggcttt gaacatgtct tctcaggtga 900
 ggtaaaaaaa ggcaagggtta ctggcttcca taactggatc cgcttctacc tggaggagaa 960
 ggaggggtctg gttgactatt acagtcacat ctacgatggg ccttgggatt cttaccccga 1020
 tgtgctggca atgcagttca actgggacgg ctactataag gaagtgggct ctgctttcat 1080
 cggcagcagc cctgagtttg agtttgact ctactccctg tgcttcatcg ccaggccagg 1140
 caaagtgtgc cagttaagcc tgggaggata tcccttagct gtccggacat atacctggga 1200
 caagtccacc tatgggaatg gcaagaagta catcgccaca gcctacatag tgtcttcac 1260
 ctaatagaac ttcgagccag aaaggggcat gagggctctt gcgagactga agtgctatct 1320
 tctctggact agagagaaga gggagaggac tggaagggat caccaaactc caaagcaatg 1380
 agaagcattc ctaaattcca aagtggccac .atgggaaaga gataaaatgt acaaattaga 1440
 aaaatgtgga taaacagtca aacctttatc ctctagaatt ttggcaatgt tgactaagaa 1500
 acagagtcca agcagagaag gtaggaaccc tccatagctc tctgccctga tgtgtggggg 1560
 aactaggaag aagtcctttg acctcaccag gcctcatgct tccctttaat gtaaagggaa 1620
 ggggtttgcc cactttctc tttttggggt tggtagagag gcaaaccctg atatttttac 1680
 tgtgaagggtg ttttcagttg ttcttaggaa gaacagctga tagaaattca agattactat 1740

```

aatggctgtt attatacaca gctctgtaaa ctaccactca gccctgtgtt ggggtcctca 1800
aagaagtaag gccacagtaa tcaagcaagg gcctttgggt ttttccagag ttagatcctc 1860
tcagaacaga gtctgggaga actccaatgc tgaatggaga agggtaatag gttggtgcag 1920
tgaatgggct ggggggtggg tggccttctc caggcctgag tgtttttgtg tccagctcag 1980
tatctgcaac aagaagtttc ccacttgtgg atgttttagtg cagccacaga cttgtatttt 2040
gatccccaat ttttttttga aagagttctc ctcataggag gatgattcag catcagaaga 2100
agaaggaacc catagcttgg tgtcattaac ataattattt taagccttat ccagcagcca 2160
taatttgaat aactctacga gaccagagag actgtagttc cctattttta cctcaattat 2220
gcatttgtcc cccaaccca ctgagaacta aatgctgtac cacagagccg ggtgtgaact 2280
atggtttaga aggttcaagt ttccaattaa agtcattgaa g 2321

```

```

<210> 569
<211> 497
<212> DNA
<213> Homo sapiens

```

```

<400> 569
tttttttttt tttttttgag gggaggaagt ggaggagaga tgataggaaa ctctcctta 60
agggtgccga ctctaactt tctgaaaatg actaaggaag agaaattcca agggaagaga 120
aacatgtttc tttcttggtc tctggttatc ccacctgagg agagaggcct ctgatgacca 180
gacatggaca acagggaggt gctggtttct ggaaatgtgt aaccaagttg gagcaccagc 240
agggatggat tacacccacg ggccacctc catttcagat gattcgcatt gattctcaac 300
tcattagggg aaccgcctt gcatctccaa gggcttcgaa atttgatata ggaaataaga 360
tgtggaggta ggggtgatgt ttcacccctt cttctagttg taggccataa ctttagaaaa 420
gaaaagcatg tatggaaatt taacaggata ccatttagat gcccgcaatg agcaggattt 480
gttttgctaa attatgg 497

```

```

<210> 570
<211> 658
<212> DNA
<213> Homo sapiens

```

```

<400> 570
ggagcctcac grgagcgkkg taacgttata gtatttgtca gaagttgggg tctccgtggg 60
cattgtgatc cgtcccaggc agtggattag gaggccagaa ggagatccct tccacggtgc 120
taggctgaga tggatcctct cagggcccaa cagctggctg cggagctgga ggtggagatg 180
atggccgata tgtacaacag aatgaccagt gcctgccacc ggaagtgtgt gcctcctcac 240

```

tacaaggaag	cagagctctc	caagggcgag	tctgtgtgcc	tggaccgatg	tgtctctaag	300
tacctggaca	tccatgagcg	gatgggcaaa	aagttgacag	agttgtctat	gcaggatgaa	360
gagctgatga	agaggggtgca	gcagagctct	gggcctgcat	gaggtccctg	tcagtataca	420
ccctgggggtg	taccccaccc	cttcccactt	taataaacgt	gtccctggtt	gggtgtcatc	480
tgtgaagact	gccaggccta	ggctctctgt	agagagtctt	caagatcccc	gagtggtagc	540
gctgtctcct	ggtgaaggag	tatttgtcac	actggaatgt	gactgtgtgt	gtatgtatgt	600
gtatatatat	atatatatat	atatataaac	aagtttgttg	acacctacaa	aaaaaaaa	658

<210> 571
 <211> 4045
 <212> DNA
 <213> Homo sapiens

<400> 571	
atctctctcc	ccgctcccca
gcctcggggcg	aggccgtccg
gccgctaccc	ctcctgctcg
60	
gccgcccag	tcgccgtcgc
cgccgcccgc	gccgccatgg
ccaatgacag	cggcggggccc
120	
ggcggggccga	gcccagagcga
gcgagaccgg	cagtactgcg
agctgtgcgg	gaagatggag
180	
aacctgctgc	gctgcagccg
ctgccgcagc	tccttctact
gctgcaagga	gcaccagcgt
240	
caggactgga	agaagcacia
gctcgtgtgc	cagggcagcg
agggcgccct	cggccacgga
300	
gtggggcccac	accagcattc
cggcccccg	ccgccggctg
cagtgccgcc	gcccagggcc
360	
ggggcccggg	agcccaggaa
ggcagcggcg	cgccgggaca
acgcctccgg	ggacgcggcc
420	
aagggaaaag	taaaggccaa
gcccccgcc	gaccagcgg
cggccgcgtc	gccgtgtcgt
480	
gcggccgcgg	gcggccaggg
ctcggcggtg	gctgccgaag
ccgagcccgg	caaggaggag
540	
ccgccggccc	gctcatcgct
gttccaggag	aaggcgaacc
tgtaccccc	aagcaacacg
600	
cccgggggatg	cgctgagccc
cggcgggcgc	ctgcggccca
acgggcagac	gaagcccctg
660	
ccggcgctga	agctggcgct
cgagtacatc	gtgccgtgca
tgaacaagca	cggcatctgt
720	
gtggtggacg	acttcctcgg
caaggagacc	ggacagcaga
tcggcgacga	ggtgcgcgcc
780	
ctgcacgaca	ccgggaagtt
cacggacggg	cagctgggtca
gccagaagag	tgactcgtcc
840	
aaggacatcc	gaggcgataa
gatcacctgg	atcgagggca
aggagcccgg	ctgcgaaacc
900	
attgggctgc	tcatgagcag
catggacgac	ctgatacgcc
actgtaacgg	gaagctgggc
960	
agctacaaaa	tcaatggccg
gacgaaagcc	atggttgctt
gttatccggg	caatggaacg
1020	
ggttatgtac	gtcatgttga
taatccaaat	ggagatggaa
gatgtgtgac	atgtatatat
1080	
tatcttaata	aagactggga
tgccaaggta	agtggaggta
tacttcgaat	ttttccagaa
1140	
ggcaaagccc	agtttgctga
cattgaaccc	aaatttgata
gactgctggt	tttctggtct
1200	

gaccgtcgca accctcatga agtacaacca gcatatgcta caaggtacgc aataactgtt	1260
tggtatTTTTg atgcagatga gagagcacga gctaaagtaa aatatctaac aggtgaaaaa	1320
ggtgtgaggg ttgaactcaa taaaccttca gattcggtcg gtaaagacgt cttctagagc	1380
ctttgatcca gcaatacccc acttcaccta caatattgtt aactatttgt taacttgtga	1440
atacgaataa atgggataaa gaaaaataga caaccagttc gcattttaat aaggaaacag	1500
aaacaacttt ttgtgttgca tcaaacagaa gatTTtgact gctgtgactt tgtactgcat	1560
gatcaacttc aaatctgtga ttgcttacag gaggaagata agctactaat tgaaaatggg	1620
ttttacatct ggatatgaaa taagtgcctt gtgtagaatt tttttcattc ttatattttg	1680
ccagatctgt tatctagctg agttcatttc atctctccct tttttatatac aagtttgaat	1740
ttgggataat ttttctatat taggtacaat ttatctaaac tgaattgaga aaaaattaca	1800
gtattattcc tcaaaataac atcaatctat ttttgtaaac ctgttcatac tattaatttt	1860
tgccttaaaa gacctcttaa taatgattgt tgccagtgac tgatgattaa ttttatttta	1920
cttaaaataa gaaaaggagc actttaatta caactgaaaa atcagattgt tttgtagtcc	1980
ttccttacac taatttgaac tgttaaagat tgctgctttt tttttgacat tgtcaataac	2040
gaaacctaatt tgtaaaacag tcaccattta ctaccaataa cttttagtta atgttttaca	2100
aggaaaaaga cacaagaaga gtttaaattt ttttgTTTTg ttttgTTTTt ttgagacagt	2160
cttgctctgt taccaggct ggaggggagt ggtgcattct tggctcactg caacctccgc	2220
cttcagggtt caagcaatcc tcccacctca gcctcccaac tagctgggac tgcaggcaca	2280
caccaccatg cctgactaat ttttgatatg ttagtagaga cggggTTTTg ccatgttgcc	2340
taggctgggg ttttaagttaa attttttaaa aaactaaagt gactggcact aagtgaactt	2400
gagattatcc tcagcttcaa gttcctaaga taagggtttt cttaagcttt cagggtgatg	2460
tatcctctag atgtagacaa taatgtccca tttctaagtc ttttcctttt gcttctcctt	2520
aaattgattg tacttccaaa tttgctgtta tgtttttttc ctaatactgt gatctatctg	2580
atctgcagac aagaaccttg tctctgttga agagcatcaa ggggagatta tgtacacatt	2640
gaaactgaag tgtggtgtta ctgacggaat gtgcagtaac tcctcagata tctgttaagg	2700
catttcccag atgtgatgcc agccttctta cctgtactga aagatgctta gcttagaaaa	2760
aaacaaaaca gatgcaaaat cagataattt tattttgttt catgggtttt cttattttact	2820
ttttaaacaa gggaaggaaat attagaaaat cacacaaggc ctcacataca tgttatttaa	2880
agaatgaatt gggacggatg tcttagactt cactttccta ggcttttttag ccaaaaccta	2940
aagggtggta tccatatttt gcgtgaatta tgggtgtaag accttgccca cttagggtttt	3000
ctatctctgt ccttgatctt cttgcaaaa tgtgagtata cagaaatttt ctgtatatatt	3060

caacttaaga catttttagc atctgtatag ttgtattcaa ttgagacct tttctatggg 3120
 aagctcagta atttttatta aaagattgcc attgctattc atgtaaaaca tggaaaaaaa 3180
 attgtgtagt gaagccaaca gtggacttag gatgggattg aatgttcagt atagtgatct 3240
 cacttaggag aatttgcagg agaaagtgat agttttattgt tttttcctcg cccatattca 3300
 gttttgttct acttcctccc ctctcttcca gatgataaca tcacatctct acagtaagtg 3360
 cctctgccag cccaaccag gagcgcaagt tgtctttgcc atctgggtcta tagtacagtg 3420
 cgcggcgtta ggccacaact caaaagcatt atctttttta gggtagtag aaattgtttt 3480
 atgttgatgg gaggtttgtt tgattgtcaa aatgtacagc cacagccttt taatttggga 3540
 gccctgttg tcattcaaat gtgtacctct acagttgtaa aaagtattag attctactat 3600
 ctgtgggttg tgcttgccag acaggtctta aattgtatat tttttggaaa agtttatata 3660
 ctctcttagg aatcattgtg aaaagatcaa gaaatcagga tggccattta tttaatatcc 3720
 attcatttca tgtagtggg actattaact tgtcaccaag caggactcta tttcaaaaaa 3780
 aatttaaaac tgtttggtg ctatatgtgt ttaatcctgg ttaaagataa agcttcataa 3840
 tgctgttttt attcaacaca ttaaccagct gtaaaacaca gacctttatc aagagtaggc 3900
 aaagattttc aggattcata tacagataga ctataaagtc atgtaatttg aaaagcagtg 3960
 tttcattatg aaagagctct caagttgctt gtaaagctaa tctaattaaa aagatgtata 4020
 aatgttggtg aaacaaaaaa aaaaa 4045

<210> 572
 <211> 1575
 <212> DNA
 <213> Homo sapiens

<400> 572
 gagagaggaa gcttgaagcc aatatggagt ccgtcagttg ctccgctgct gctgtcagga 60
 ccggagacat ggagtcccag cgggacctga gcctgggtgcc tgagcggctt cagagacgcg 120
 aacaagaacg gcagctggaa gttgaaaggc ggaaacaaaa gcggcagAAC caggaggtag 180
 agaaggagaa cagccacttt ttcgtcgcca cctttgctcg ggagcgagcg gccgtggaag 240
 agcttctgga gcgcgcggag tcggtcgagc ggctggagga ggcgccctct cggctccagg 300
 ggctgcagaa actaatcaac gactcagttt ttttcctagc cgcttacgac ctgcggcagg 360
 gacaagaggc gctggcgcgg ctgcaggcgg ccttggccga gcggcgccgg gggctgcagc 420
 ccaagaagcg tttcgctttc aagaccggg gaaaggatgc tgcttcgtct accaaagtag 480
 acgcggctcc tggcatcccc ccggcagttg aaagcataca ggactccccg ctgcccaga 540
 aggcggaagg agacctcggc ccagctggg tctgcggtt ctccaacctg gagtcccaag 600

tcttggagaa gagagccagc gagttgcacc agcgcgacgt tcttttgacc gaactgagca 660
 actgcacggc cagactgtat ggaaatccca acaccctgcg gctaaccaag gcccacagct 720
 gcaagctgct ctgcggcccg gtgtctacct ctgttttccct ggaggactgc agtgactgcg 780
 tgctggcagt ggccctgccaa cagctccgca tacacagtac gaaagacacc cgcactcttc 840
 tgcaggtgac cagcagggcc atcgtggagg actgcagtgg gatccagttc gcccttaca 900
 cctggagcta cccggagatc gacaaggact tcgagagctc tggtttagat aggagcaaaa 960
 ataactggaa cgatgttgac gattttaact ggctggcccg ggatatggcc tccccaaact 1020
 ggagtattct tcctgaagag gagcgaaata tccagtggga ctaagcagtt gtcactctgt 1080
 tcttcactcc taccaaatac tttccacgtt ggactttccc cttattggg tctcgaagtt 1140
 tacttattgt cacactgtgt atgttttcag cattttaagg ctagagattg taatgggctc 1200
 ctacttgtaa tttccattaa attcgtaaca ggtataacac taaagcattt ttgctatttt 1260
 cgtcatgctt ttgagactga gtcttactcc gtccccagc gtggtggcgc gctgggatta 1320
 caggcgcgcg ccaccacgcg aactcgtatt tttagtagag acgggggttc gccatgttgt 1380
 ccgggctgct ctcgaactcc tgacctcagg tgatccaccc gcttcagctt cccaaagtgc 1440
 tggcattaca ggctgagacc accacgccag ggctttattt atttattttt accacaatag 1500
 tttgaagcag taagggggaa ggaggggtgat tatattgctt tgtaatgggt tgtgatactt 1560
 gaaacatcac ggtgc 1575

<210> 573
 <211> 995
 <212> DNA
 <213> Homo sapiens

<400> 573
 tttgggggtg ataaaaaggg gggcccaaaa aacgggggag cggagatttt tttgggaaat 60
 tttttttttt ttcttttgga tatatgacca gcagtgggat tgctggatct tacgatggaa 120
 ttcccaaaga tggtgaccag gaagatcaag ctgtgggaca tcaacgcca catcacctgc 180
 cgctgtgca gcgggtacct catcgacgcc accacgggtga ccgagtgtct gcacaccttc 240
 tgcaggagct gcctggtgaa gtacctggag gagaacaaca cctgccccac ctgcaggatt 300
 gtgatccacc agagccaccc cctgcagtac atcgggtcatg acagaacat gcaagatatt 360
 gtttaciaaat tgggtaccagg cctccaagaa gcggaaatga gaaagcagag ggagttctat 420
 cacaaattgg gcatggaggt gccgggagac atcaaggggg agacctgctc tgcaaacag 480
 cacttagatt cccatcggaa tggtgaaacc aaagcagacg acagttcaaa caaagaggcc 540
 gcggaggaga agccggagga ggacaacgac taccaccgca gcgacgagca ggtgagcatc 600

tgcttggagt	gtaacagcag	caaactgcgc	gggctgaagc	ggaagtggat	ccgctgctca	660
gcccagggcga	ccgtcttgca	tctgaagaag	ttcatcgcca	aaaaactcaa	cctttcatcc	720
tttaacgagc	tggacatttt	atgcaacgag	gagatcctgg	gcaaggacca	cacactcaag	780
ttcgtgggtg	tcactagggtg	gagattcaag	aaggcgccgc	tcctgctgca	ctacagaccc	840
aagatggact	tgctgtgaat	ggtgccacac	agcgcccaca	gactgggctc	gcacccttgg	900
gtgctccccg	ccgccgcgct	taagaacatt	gcctctgggt	gtcatgtgga	ccagacttct	960
gaatagagaa	tatttataac	ttttgtatga	gagag			995

<210> 574

<211> 3367

<212> DNA

<213> Homo sapiens

<400> 574

ccttctggca	ctttctatgg	gaggattctc	gtaacagcag	cacaccaact	gaaaagccca	60
aactgctcgc	tcttggtgaa	aattatgaac	tgcttatcta	tgaatttaat	ttgaaagatg	120
gaagatgtga	tgcaaccatt	ttgtatagct	gtagtaggga	ggcattgcaa	aagctcattg	180
acgatcaaga	tatcagtatt	tccttattgt	ctttgagaat	cctgtcattt	cacaataaca	240
catcattact	gttcatcaac	aaatgtgtca	tcctacatat	tatatctcct	gaaagagatg	300
ctgcaattag	agtactcaac	tgtttcacac	ttcccttgcc	tgcacaggca	gtggacatga	360
ttattgacac	gcagctctgc	agaggaattc	tttttgtttt	gagtagttta	ggctggatct	420
acatttttga	tgttgtggat	ggtacatatg	tagctcatgt	ggatttagca	cttcacaaag	480
aagacatgtg	taatgagcag	caacaggagc	cagccaagat	ttcttcattt	acttcactga	540
aagttttctca	agacctcgat	gttgcagtga	ttgtcagctc	ctccaactcc	gcagttgctc	600
ttaacttaaa	tttgtatttc	aggcaacacc	caggacacct	actgtgtgaa	agaatactag	660
aagatcttcc	tattcaagga	cctaagggcg	tagatgaaga	tgatcctgtt	aactctgcct	720
acaacatgaa	actggccaag	ttttccttcc	aaattgatag	gtcttggaag	gccagctat	780
catcattgaa	tgaaacaata	aagaactcca	aactggaggt	ttcctgttgt	gctccatggg	840
tccaggatat	tttgcatttg	gagtcacctg	aatctggtaa	ccacagtaca	agtgtgcaga	900
gctggggcctt	cattccacag	gacataatgc	atgggcaata	taatgttcta	cagaaagatc	960
atgccaagac	cagtgatcca	ggaagatcat	ggaaaataat	gcacatcagt	gaacaagagg	1020
aacccataga	gcttaaagt	gtgtctgtga	caggattcac	tgactgtttt	acttggaag	1080
tggaaaggat	gggctatacc	attacctct	gggatttgga	gaccagggc	atgcagtgtt	1140
tttcccttgg	cacaaagtgt	attcctgtag	acagtagtgg	agaccagcag	ctgtgctttg	1200

ttttgacaga gaatggactc tctctgattt tgtttggttt gactcaagaa gagtttttaa	1260
acagactcat gatccatgga agtgccagca ctgtggacac tctttgtcat ctcaatggct	1320
ggggaagggtg ctcaattccc atacatgcac tagaggccgg gatagaaaat cgtcagctgg	1380
acacagtaaa tttctttttg aagagcaagg aaaatctttt taatccatcc tcaaatctt	1440
ctgtatctga tcagtttgat cacttgctcat cccatttata tttaagaaat gtggaagagc	1500
tgataccagc attggattta ctttgctcgg caattagaga aagttattct gaaccccaaa	1560
gcaaacactt ttcagaacaa ttgcttaatc ttacactgtc tttccttaac aaccaaataa	1620
aggagctttt cattcacact gaagaactag atgaacatct gcaaaaagga gtgaacattt	1680
tgactagcta cattaatgaa cttcgaacct tcatgataaa gtttccttgg aagctaacag	1740
atgctataga tgaatatgat gtacatgaaa atgtcccaa agtaaaggag agcaatatat	1800
ggaagaaact cagctttgag gaagttattg ccagcgccat tttaaacaac aaaataccag	1860
aggcacagac tttcttcagg attgatagtc attctgctca aaaacttgag gagcttattg	1920
gcataggcct aaatttggtc tttgacaatt taaaaaagaa caatataaag gaagcctctg	1980
aacttttgaa gaatatgggg tttgatgtaa aaggccaatt gctcaagatc tgcttctata	2040
caactaataa aaatatacgt gacttttttg ttgaaatttt aaaagaaaaa aattattttt	2100
ctgaaaaaga gaaaagaact atagacttcg tgcataagtg tgagaagctt tatttgggac	2160
atttccaaga aaatatgcaa atccagtcac tccccaggta ctggataaag gaacaagatt	2220
tttcaagcac aagtctgttt tggactcatt cctgaaatat gattgtaaag atgaatttaa	2280
caaacaggac catagaattg tggttaaattg ggctctgtgg tgggatcaac taacacaaga	2340
atccatcctt ctccccagga taagtccaga agaatacaaa tcatattccc ctgaagccct	2400
ctggagatac ctcacagctc gccatgattg gttaaacatt atcttatgga ttggagaatt	2460
tcaaaccag catagtatat cttcacttca gcagaacaaa tggccccctt tgactgttga	2520
tgttattaac cagaatactt cctgtaacaa ctacatgagg aatgaaattt tagataagct	2580
ggccaggaat ggggtttttt tggcatctga actggaagac tttgaatgct tcctcctaag	2640
actgagccgt attggagggtg taatacagga taccctccct gttcaaaaact acaagaccaa	2700
agaaggttgg gatttccatt ctcaattcat tctctattgt ttggagcaca gtctgcagca	2760
tcttctttat gtctaccttg actgttacaa acttagtcct gaaaattgtc ccttttttga	2820
aaaaaaagag ttacatgaag cacacccttg gtttgaattt ttagttcagt gtcgacaagt	2880
tgccagtaac ttaacagatc ccaaactgat cttccaggct agccttgcaa atgctcagat	2940
tttgattccc accaatcagg ccagtgtgtaag cagtatgcta ttggaaggac ataccctcct	3000

```

ggcccttgct actacaatgt atttcctggt ggggtgtcagt cagggtgttc agaatgaaga 3060
aaatgaaaac tgtttgaaga aagtggatcc ccagctattg aagatggcat taactcctta 3120
ccccaaagcta aaaactgctc tcttcccaca gtgcactcct cctagtgtcc tgccatctga 3180
tattacaatc taccacctta ttcagtcatt atcacccctt gatecctagca gattgttttg 3240
ctggcagtcct gctaacacac tagctatagg agatgcatgg agtcattctc cacatttctc 3300
tagccctgac ctgggttaata aatatgctat agtggaacgt ctgaattttg cttattattt 3360
acataaa 3367

```

```

<210> 575
<211> 1615
<212> DNA
<213> Homo sapiens

```

```

<400> 575
gggaggaggc agggcagggc ctctgggacg gggctggacg gcttgttgac ggaaacgagc 60
ccttgacgct gtggcccggg agtggagcgg ctgtcgcagt gcggctccgg cagtggcagc 120
ggaggcctgt gtttgcggcc ttcggcaagc gactgagatg gcgagcgcaa ctgcacctgc 180
agccgcagtc cccaccctgg ctctgccttt ggagcagctc cggcacttgg cggaggagct 240
gcggttgctc ctgcctcgag tgcgggtcgg cgaagcccag gagaccaccg aggagttaa 300
tcgagagatg ttctggagaa gactcaatga ggcagctgtg actgtgtcaa gggaagccac 360
gactctgacc atagtcttct ctgagcttcc actgccgtct ccacaggaaa cccagaagtt 420
ctgtgaacaa gtccatgctg ccatcaaggc atttattgca gtgtactatt tgcttccaaa 480
ggatcagggg atcacctga gaaagctggt acggggcgcc accctggaca tcgtggatgg 540
catggctcag ctcatggaag tactttccgt cactccaact cagagccctg agaacaatga 600
ccttatttcc tacaacagtg tctgggttgc gtgccagcag atgcctcaga taccaagaga 660
taacaaagct gcagctcttt tgatgctgac caagaatgtg gattttgtga aggatgcaca 720
tgaagaaatg gagcaggctg tggaagaatg tgacccttac tctggcctct tgaatgatac 780
tgaggagaac aactctgaca accacaatca tgaggatgat gtgttggggg ttcccagcaa 840
tcaggacttg tattggtcag aggacgatca agagctcata atcccatgcc ttgcgctggg 900
gagagcatcc aaagcctgcc tgaagaaaat tcggatgtta gtggcagaga atgggaagaa 960
ggatcaggtg gcacagatgg ctgacattgt ggatatttct gatgaaatca gccctagtgt 1020
ggatgatttg gctctgagca tatatccacc tatgtgtcac ctgaccgtgc gaatcaattc 1080
tgcgaaactt gtatctgttt taaagaaggc acttgaaatt acaaaagcaa gtcatgtgac 1140
ccctcagcca gaagatagtt ggatcccttt acttattaat gccattgatc attgcatgaa 1200

```

tagaatcaag	gagctcactc	agagtgaact	tgaattatga	cttttcaggc	tcatttgtac	1260
tctcttcccc	tctcatcgtc	atggtcaggc	tctgatacct	gcttttaaaa	tggagctaga	1320
atgcttgctg	gattgaaagg	gagtgcctat	ctatatattag	caagagacac	tattaccaaa	1380
gattgttggt	taggccagat	tgacacctat	ttataaacca	tatgcgtata	tttttctgtg	1440
ctatatatga	aaaataattg	catgatttct	cattcctgag	tcatttctca	gagattccta	1500
ggaaagctgc	cttattctct	ttttgcagta	aagtatgttg	ttttcattgt	aaagatgttg	1560
atggtctcaa	taaaatgcta	acttgccagt	gattaaaaaa	aaaaaaaaaa	aaaaa	1615

<210> 576
 <211> 2882
 <212> DNA
 <213> Homo sapiens

<400> 576	
ctgcaggtaa	60
ctgcaggtaa	cggtcagcg
ctgcaggtaa	ctgccgggat
ctgcaggtaa	cctttcaatc
ctgcaggtaa	atcaggaaca
ctgcaggtaa	gcaacagggt
ctgcaggtaa	60
ctgcaggtaa	ggctggggac
ctgcaggtaa	cctcgcccat
ctgcaggtaa	taactctttc
ctgcaggtaa	ttctccctgt
ctgcaggtaa	ttctttctct
ctgcaggtaa	120
ctgcaggtaa	gaaactgagt
ctgcaggtaa	tccagggtag
ctgcaggtaa	gctccagagt
ctgcaggtaa	gaagagggaa
ctgcaggtaa	gaaacatgat
ctgcaggtaa	180
ctgcaggtaa	aggtctggac
ctgcaggtaa	aagtgtgaac
ctgcaggtaa	accttggggc
ctgcaggtaa	tgccaattca
ctgcaggtaa	gccccctcct
ctgcaggtaa	240
ctgcaggtaa	ggtcaaaggc
ctgcaggtaa	tagacttgca
ctgcaggtaa	ggagcttgcg
ctgcaggtaa	tttgaaggga
ctgcaggtaa	cagcccagaa
ctgcaggtaa	300
ctgcaggtaa	gcactcccca
ctgcaggtaa	tacaggtact
ctgcaggtaa	tctgggtctg
ctgcaggtaa	tgggactggc
ctgcaggtaa	gcagggttct
ctgcaggtaa	360
ctgcaggtaa	ctgcccagc
ctgcaggtaa	tgaggctgag
ctgcaggtaa	gcagtgtcag
ctgcaggtaa	gccggcggca
ctgcaggtaa	gcggcagtgg
ctgcaggtaa	420
ctgcaggtaa	ctgggaagga
ctgcaggtaa	tagtggccgg
ctgcaggtaa	cctgaattct
ctgcaggtaa	ctgtggcaag
ctgcaggtaa	ggaggggagc
ctgcaggtaa	480
ctgcaggtaa	ggcccccttg
ctgcaggtaa	ggacaccgag
ctgcaggtaa	gaccagggtc
ctgcaggtaa	gctactgctc
ctgcaggtaa	ctcccccagg
ctgcaggtaa	540
ctgcaggtaa	ggggctacat
ctgcaggtaa	tggctggcag
ctgcaggtaa	gggctgagca
ctgcaggtaa	gcgggtgagc
ctgcaggtaa	tggctggctt
ctgcaggtaa	600
ctgcaggtaa	cgactccggg
ctgcaggtaa	catccgggac
ctgcaggtaa	agcttctcct
ctgcaggtaa	cgctgccacc
ctgcaggtaa	tcggccagtc
ctgcaggtaa	660
ctgcaggtaa	acacctgtca
ctgcaggtaa	ctacccccct
ctgcaggtaa	agccttccca
ctgcaggtaa	agccaggagc
ctgcaggtaa	ctgggagtcc
ctgcaggtaa	720
ctgcaggtaa	tacctccggc
ctgcaggtaa	agcgctccta
ctgcaggtaa	ggcgacgctc
ctgcaggtaa	ccgggctggc
ctgcaggtaa	ggcgccgggg
ctgcaggtaa	780
ctgcaggtaa	agggctgctg
ctgcaggtaa	cgcgcggggc
ctgcaggtaa	gggggctggg
ctgcaggtaa	ggctgcgcgg
ctgcaggtaa	ggcggggcgg
ctgcaggtaa	840
ctgcaggtaa	tccgggcccc
ctgcaggtaa	ctcccccgcc
ctgcaggtaa	cccctgacgt
ctgcaggtaa	cagcccccg
ctgcaggtaa	cagcctcgag
ctgcaggtaa	900
ctgcaggtaa	gcgtctcgcc
ctgcaggtaa	ctccggccaa
ctgcaggtaa	gcattggggt
ctgcaggtaa	tcccaggctg
ctgcaggtaa	gtctgcgcct
ctgcaggtaa	960
ctgcaggtaa	cgctctcgcc
ctgcaggtaa	tgctgtcctc
ctgcaggtaa	gcgtcgcggg
ctgcaggtaa	tgagttcgct
ctgcaggtaa	tcgtctcgag
ctgcaggtaa	1020
ctgcaggtaa	ccggctaggg
ctgcaggtaa	gtctgcgggt
ctgcaggtaa	gagcgtgcca
ctgcaggtaa	gggagcagag
ctgcaggtaa	ccagcggcgc
ctgcaggtaa	1080
ctgcaggtaa	ggcggtgctg
ctgcaggtaa	ctgggaggac
ctgcaggtaa	gagcctcctc
ctgcaggtaa	cctgggtccc
ctgcaggtaa	cgatcccccg
ctgcaggtaa	1140
ctgcaggtaa	gcgagcaact
ctgcaggtaa	cttcttttga
ctgcaggtaa	gccagtttgc
ctgcaggtaa	agccgggatt
ctgcaggtaa	ctagagtatc
ctgcaggtaa	1200

```

ccgggagcag cactcgggaag gcggggagga ggctgcttct gggaaacgaga aggggtggag 1260
ctcagccttt cgggggtgctg ggggggtgggt ggtccctgag gtgctcactc tgggggccccg 1320
caattgaagc cgggcaggag gcgcagctgg ggcgcctcct caaagcctga attccgcgcc 1380
cggctgttgc tggaaaaggc agcttccttc gctggagggg gtgcgcccac ccaccccttc 1440
cccccttctgc ctgggcatca cgccaggctg gaggtgagcg agagcgggag gttcggcggc 1500
tcccgcgccga gctgggcgtt ggcaggggtt gcggggcggt gtgggtcgcc tcgcgcctcc 1560
ccgagtgatg ggatcatagg ggacagagat gagggatgga ggattcccat actggacgcc 1620
cgctggctta ttttggggac cacattcagg tgggaagtgc gcccgggcac ctcgagcgt 1680
ttctccggat ccgcctggta gcaggggtgct ctcggtccc gctgcccttg tatggcccg 1740
gcagcgggtg cgctgtttc tcttggtcc cattccgccg tcccgtgtc cggctgggga 1800
aggggagggc taggcaatac cagctcgctg gcctcatgcc cagtgccaac catgtcctgg 1860
ggattccag ctactgcctc ccaggctgac tttatttctg ggaaagggt aaatcgggt 1920
ccacagttgc agccgggtcca gctccacct gccctgctct tctagtctcg ggaggagtca 1980
ggggtctgag gctctgggtt ggagaccca ccttccacct gccctccttg tccgagagcc 2040
aaggtaacaa cccaggactc ccagagtccc aggcagatgg tgctgagtga catcacctcc 2100
tcacagggct ggcagcacgc tggcaccact gacgtcactc ctgcccactg cctggccctt 2160
gccctgaccc ctgggggaga ctctgacctc tccatcctta ccagctacct aggggtgggt 2220
ccgcgggtgt gtgcggagtg ttcattggcg tgacgtgag ggagggagca tgagaccgga 2280
acttccgcca gagttagccc gctggggagt gagggcaggg attttgagg gcagaggggt 2340
agagcagtgg tgtcttcctg gcggtggtga cacaaaaggc ctgttgggcc cagcctggca 2400
catcgtttgc attcccacac tctgagctca cccggagagg agggggcctg gaaggaaagg 2460
cgttcctctt gccccgagcc tagttgcccc tttctgcccc tctacagcct cagctggagc 2520
tgtcgggtgt cagtctctgc tcaatctctg cttggctcca aggacctggg atctcctggt 2580
acggggagag ggctggccca ggtgggggtg cgggtcgggg tgggggtaga gcgttcagag 2640
acagggccct ctgcagaccc tctgagtggc aggaaaaaaca gctcgacgag cgctgcgagg 2700
ggaggggagg acacgacgag gacgtgacac agcctgggcc ccgcctccct ccccagggtg 2760
tgcccgagga ggctgagcag cctgcgcctg agctggtgga ggtggaagtg ggcagcacag 2820
cccttctgaa gtgcggcctc tcccagtcac aaggcaacct cagccatgtc gactggtttt 2880
ct

```

<210> 577

<211> 2733

<212> DNA

<213> Homo sapiens

<400> 577

```

ctcgcgagggc cggctaggcc cgaatgtcgt tagccgtggg gaaagatggc ggaaaattta      60
aaaggctgca gcgtgtgttg caagtcttct tggaatcagc tgcaggacct gtgccgcctg      120
gccaagctct cctgccctgc cctcggtatc tctaagagga acctctatga ctttgaagtc      180
gagtacctgt gcgattacaa gaagatccgc gaacaggaat attacctggg gaaatggcgt      240
ggatatccag actcagagag cacctgggag ccacggcaga atctcaagtg tgtgcgtatc      300
ctcaagcagt tccacaagga cttagaaagg gagctgctcc ggcggcacca ccggtcaaag      360
accccccggc acctggaccc aagcttggcc aactacctgg tgcagaaggc caagcagagg      420
cgggcgctcc gtcgctggga gcaggagctc aatgccaaagc gcagccatct gggacgcctc      480
actgtagaga atgaggtgga cctggacggc cctccgctgg ccttcgtgta catcaatgag      540
taccgtgttg gtgagggcat caccctcaac caggtggctg tgggctgcga gtgccaggac      600
tgtctgtggg caccactggg aggctgctgc cggggggcgt cactgcacaa gtttgcctac      660
aatgaccagg gccagggtgcg gcttcgagcc gggctgcca tctacgagtg caactccgc      720
tgccgctgcg gctatgactg cccaaatcgt gtggtacaga agggatatccg atatgacctc      780
tgcattcttc ggacggatga tgggctggc tggggcgtcc gcacctgga gaagattcgc      840
aagaacagct tcgtcatgga gtacgtggga gagatcatta cctcagagga ggcagagcgg      900
cgggggccaga tctacgaccg tcagggcgcc acctacctct ttgacctgga ctacgtggag      960
gacgtgtaca ccgtggatgc cgcctactat ggcaacatct cccactttgt caaccacagt     1020
tgtgacccca acctgcaggt gtacaacgtc ttcatagaca accttgacga gcggctgccc     1080
cgcctgcctt tctttgccac aagaaccatc cgggcaggcg aggagctcac ctttgattac     1140
aacatgcaag tggaccccggt ggacatggag agcaccgcga tggactccaa ctttggcctg     1200
gctgggctcc ctggctcccc taagaagcgg gtccgtattg aatgcaagtg tgggactgag     1260
tcctgccgca aatacctctt ctageccctta gaagtctgag gccagactga ctgagggggc     1320
ctgaagctac atgcacctcc cccactgctg ccctcctgtc gagaatgact gccagggcct     1380
cgcctgcctc cacctgcccc cacctgctcc tacctgctct acgttcaggg ctgtggccgt     1440
ggtgaggacc gactccagga gtcccccttc cctgtcccag ccccatctgt gggttgcact     1500
tacaaacccc caccacctt cagaaatagt ttttcaacat caagactctc tgtcgttggg     1560
attcatggcc tattaaggag gtccaagggg tgagtcccaa ccagcccca gaatatattt     1620
gtttttgcac ctgcttctgc ctggagattg aggggtctgc tgcaggcctc ctccctgctg     1680
cccaaagggt atggggaagc aacccagag caggcagaca tcagaggcca gagtgcctag     1740

```

```

cccgacatga agctggttcc ccaaccacag aaactttgta ctagtgaaag aaaggggtcc 1800
ctggcctacg ggctgaggct ggtttctgct cgtgcttaca gtgctgggta gtgttggtccc 1860
taagagctgt agggctctctt cttcagggtc gcatactctga gaagtggatg cccacatgcc 1920
actggaaggg aagtgggtgt ccatgggcca ctgagcagtg agaggaaggc agtgcagagc 1980
tggccagccc tggaggtagg ctgggaccaa gctctgcctt cacagtgcag tgaaggtacc 2040
tagggctctt gggagctctg cggttgctag gggccctgac ctgggggtgtc atgaccgctg 2100
acaccactca gagctggaac caagatctag atagtccgta gatagcactt aggacaagaa 2160
tgtgcattga tgggggtggtg atgaggtgcc aggactagg tagagcacct ggtccacgtg 2220
gattgtctca ggggaagcctt gaaaaccacg gaggtggatg ccaggaaagg gcccatgtgg 2280
cagaaggcaa agtacaggcc aagaattggg ggtgggggag atggcttccc cactatggga 2340
tgacgaggcg agagggaagc ccttgctgcc tgccattccc agaccccgag cctttgtgct 2400
cacctgggtt ccactggtct caaaagtcac ctgcctacaa atgtacaaaa ggcgaagggt 2460
ctgatggctg ccttgctcct tgctccccc cccctgtga ggacttctct aggaagtcct 2520
tcctgactac ctgtgccag agtgccccta catgagactg tatgccctgc tatcagatgc 2580
cagatctatg tgtctgtctg tgtgtccatc ccgccggccc cccagactaa cctccaggca 2640
tggactgaat ctggttctcc tcttgtacac ccctcaacct tatgcagcct ggagtgggca 2700
tcaataaaat gaactgtcga ctgaaaaaaaa aaa 2733

```

```

<210> 578
<211> 710
<212> DNA
<213> Homo sapiens

```

```

<400> 578
gagagggtgga ggcgctttga aagggtgagag cgcgagggcg gtgcggggct gtctcccgcc 60
tgggactcgc tcgcgctccc ggtgctaattg gtttatgaga gggcggggga agccgtgcct 120
cctcgcggac taagagaaaa attcccgcgg gcgctctttg ggtgggcccgg agaacgcccc 180
tcagcccttt gcgcctctaa ccctcctcag ctgagctgca gtgggcgcgg tgcccgttat 240
ttcgccttg gggaggtgct tggaactgat gtagggagct cggttggtga tttctcgggt 300
ttctggcctt tccagacct tgtaattgtt ttctcgggtgc agagctcttt tggggtctgg 360
gggtttccgt cgtcctgcgc gcgtcatcgc gaagcttggc ctgaggggtcc ggtttcctag 420
ctactgtgcc cctccctcct ggaggcagag tgacggacta gtgggctagc gggcgctggg 480
ttctgcgtc ccgccaaaga ggtttgtaat catgaaagt cacccttccg ggtgttaatt 540
cctgagagga tctactccac tgtctaccac tcattcctgc tgcattaacc ttcattgtta 600

```

acggatttta atgaataata tagttatccc ggataccatg ctggcaggat ccactttgcg 660
 aaattgtgga ctgttggact gtgattctaa gtgggggaaa taggcttttag 710

<210> 579
 <211> 287
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (235)..(235)
 <223> n is a, c, g, t or u

<400> 579
 caccatctcc tgcgtctcgc gggggtaggc acgcacgaag aacatccggc tatggcacag 60
 ccgcatatgc gcgaccttca ccgtcgtcgt cacgccggcc agcaccacga cctcatggct 120
 ccagtcgaac tggttaagcct cgcccggctc aaagctcagc ggacacgaac cggtcgcctg 180
 gcggcccact tcctcgcgct gccagcggcg ggcattggcg cgaacgggtat catanccgcc 240
 ctcgtatcct tgcgcccga gcgtctcgaa caggcggatc agcgtca 287

<210> 580
 <211> 2693
 <212> DNA
 <213> Homo sapiens

<400> 580
 cgaaaaaaga ggggaagagt attaaagacc atttctggct gggcagggca ctctcagcag 60
 ctcaactgcc cagcgtgacc agtggccacc tctgcagtgt cttccacaac ctggtcttga 120
 ctcgtctgct gaacaaatcc tctgacctca ggccggctgt gaacgtagtt cctgagagat 180
 agcaaacatg cccaacagtg agcccgcatc tctgctggag ctgttcaaca gcatcgccac 240
 acaaggggag ctcgtaaggt ccctcaaagc gggaaatgcg tcaaaggatg aaattgattc 300
 tgcagtaaag atgttggtgt cattaaaaat gagctacaaa gctgccgcgg gggaggatta 360
 caaggctgac tgtcctccag ggaaccagc acctaccagt aatcatggcc cagatgccac 420
 agaagctgaa gaggattttg tggacccatg gacagtacag acaagcagtg caaaaggcat 480
 agactacgat aagctcattg ttcggtttgg aagtagtaaa attgacaaag agctaataaa 540
 ccgaatagag agagccaccg gccaaagacc acaccacttc ctgcgcagag gcatcttctt 600
 ctcacacaga gatatgaatc aggttcttga tgcctatgaa aataagaagc cattttatct 660
 gtacacgggc cggggcccct cttctgaagc aatgcatgta ggtcacctca ttccatttat 720
 tttcacaaag tggctccagg atgtatttaa cgtgcccttg gtcattcaga tgacggatga 780

cgagaagtat	ctgtggaagg	acctgaccct	ggaccaggcc	tatggcgatg	ctgttgagaa	840
tgccaaggac	atcatcgccct	gtggctttga	catcaacaag	actttcatat	tctctgacct	900
ggactacatg	gggatgagct	cagggtttcta	caaaaatgtg	gtgaagattc	aaaagcatgt	960
taccttcaac	caagtgaag	gcattttcgg	cttcactgac	agcgactgca	ttgggaagat	1020
cagttttcct	gccatccagg	ctgctccctc	cttcagcaac	tcattcccac	agatcttccg	1080
agacaggacg	gatatccagt	gccttatccc	atgtgccatt	gaccaggatc	cttacttttag	1140
aatgacaagg	gacgtcgccc	ccaggatcgg	ctatcctaaa	ccagccctgt	tgactccac	1200
cttcttccca	gccctgcagg	gcgcccagac	caaaatgagt	gccagcgacc	caaactcctc	1260
catcttcctc	accgacacgg	ccaagcagat	caaaaccaag	gtcaataagc	atgcgttttc	1320
tggagggaga	gacaccatcg	aggagcacag	gcagtttggg	ggcaactgtg	atgtggacgt	1380
gtctttcatg	tacctgacct	tcttcctcga	ggacgacgac	aagctcgagc	agatcaggaa	1440
ggattacacc	agcggagcca	tgctcaccgg	tgagctcaag	aaggcactca	tagaggttct	1500
gcagcccttg	atcgagagc	accaggcccc	gcgcaaggag	gtcacggatg	agatagtga	1560
agagttcatg	actccccgga	agctgtcctt	cgactttcag	tagcactcgt	ttacatatg	1620
cttataaaag	aagtgatgta	tcagtaatgt	atcaataatc	ccagcccagt	caaagcaccg	1680
ccacctgtag	gcttctgtct	catggtaatt	actgggcctg	gcctctgtaa	gcctgtgtat	1740
gttatcaata	ctgtttcttc	ctgtgagttc	cattatttct	atctcttatg	ggcaaagcat	1800
tgtgggtaat	tggtgctggc	taacattgca	tggtcggata	gagaagtcca	gctgtgagtc	1860
tctccccaaa	gcagccccac	agtggagcct	tcggctggaa	gtccatgggc	caccctgttc	1920
ttgtccatgg	aggacttccg	agggttccaa	gtatactctt	aagaccact	ctgtttaaaa	1980
atatatatc	tatgtatgcg	tatatggaat	tgaaatgtca	ttattgtaac	ctagaaagtg	2040
ctttgaaata	ttgatgtggg	gagggttatt	gagcacaaga	tgtatttcag	cccatgcccc	2100
ctccccaaaa	gaaattgata	agtaaaagct	tcgttataca	tttgactaag	aaatcaccca	2160
gctttaaagc	tgcttttaac	aatgaagatt	gaacagagtt	cagcaatttt	gattaaatta	2220
agacttgggg	gtgaaacttt	ccagtttact	gaactccaga	ccatgcatgt	agtccactcc	2280
agaaatcatg	ctcgcttccc	ttggcacacc	agtgttctcc	tgccaaatga	ccctagaccc	2340
tctgtcctgc	agagtcaggg	tggtttttcc	cctgactgtg	tccgatgcca	aggagtcttg	2400
gcctccgcag	atgcttcatt	ttgacccttg	gctgcagtgg	aagtcagcac	agagcagtgc	2460
cctggctgtg	tcctggacgg	gtggacttag	ctagggagaa	agtcgaggca	gcagccctcg	2520
aggccctcac	agatgtctag	gcaggcctca	tttcatcacg	cagcatgtgc	aggcctggaa	2580
gagcaaagcc	aaatctcagg	gaagtccttg	gttgatgtat	ctgggtctcc	tctggagcac	2640

tctgccctcc tgtcaccag tagagtaaataaacttcctt ggctcctaaa aaa 2693

<210> 581

<211> 4633

<212> DNA

<213> Homo sapiens

<400> 581

tacggctgcg agaagacgac agaaggggag aagaaagcca gtgcgtctct gggcgcaggg 60
gccagtgggg ctcggaggca caggcacccc gcgacactcc aggttccccg acccacgtcc 120
ctggcagccc cgattattta cagcctcagc agagcacggg gcgggggcag aggggcccgc 180
ccgggagggc tgctacttct taaaacctct gcgggctgct tagtcacagc ccccttgct 240
tggtgtgtc cttcgctcgc tccctccctc cgtcttaggt cactgttttc aacctcgaat 300
aaaaactgca gccaaacttc gaggcagcct cattgcccag cggaccccag cctctgccag 360
gttcggctcg ccacctcgt cccgtccctc gccggcccct gcccgcgcc cagggatcct 420
ccagctcctt tcgcccgcgc cctccgttcg ctccggacac catggacaag ttttggtggc 480
acgcagcctg gggactctgc ctcgctccgc tgagcctggc gcagatcgat ttgaatataa 540
cctgccgctt tgcaggtgta ttccacgtgg agaaaaatgg tcgctacagc atctctcgga 600
cggaggccgc tgacctctgc aaggctttca atagcacctt gccacaatg gccagatgg 660
agaaagctct gagcatcgga tttgagacct gcaggatatgg gttcatagaa gggcacgtgg 720
tgattccccg gatccacccc aactccatct gtgcagcaaa caacacaggg gtgtacatcc 780
tcacatccaa cacctcccag tatgacacat attgcttcaa tgcttcagct ccacctgaag 840
aagattgtac atcagtcaca gacctgccc atgcctttga tggaccaatt accataacta 900
ttgttaaccg tgatggcacc cgctatgtcc agaaaggaga atacagaacg aatcctgaag 960
acatctaccc cagcaaccct actgatgatg acgtgagcag cggctcctcc agtgaaagga 1020
gcagcacttc aggaggttac atctttttaca cctttttctac tgtacacccc atcccagacg 1080
aagacagtcc ctggatcacc gacagcacag acagaatccc tgctaccaga gaccaagaca 1140
cattccaccc cagtgggggg tcccatacca ctcatggatc tgaatcagat ggacactcac 1200
atgggagtca agaaggtgga gcaaacacaa cctctgggtcc tataaggaca ccccaaattc 1260
cagaatggct gatcatcttg gcatccctct tggccttggc tttgattctt gcagtttgca 1320
ttgcagtcaa cagtcgaaga aggtgtgggc agaagaaaaa gctagtgatc aacagtggca 1380
atggagctgt ggaggacaga aagccaagtg gactcaacgg agaggccagc aagtctcagg 1440
aaatggtgca tttggcgaac aaggagtcgt cagaaactcc agaccagttt atgacagctg 1500
atgagacaag gaacctgcag aatgtggaca tgaagattgg ggtgtaacac ctacaccatt 1560

atcttggaag gaaacaaccg ttggaaacat aaccattaca gggagctggg acacttaaca	1620
gatgcaatgt gctactgatt gtttcattgc gaatcttttt tagcataaaa ttttctactc	1680
tttttgtttt ttgtgttttg ttcttttaaag tcagggtccaa tttgtaaaaa cagcattgct	1740
ttctgaaatt agggcccaat taataatcag caagaatttg atcgttccag ttcccacttg	1800
gaggcctttc atccctcggg tgtgctatgg atggcttcta acaaaaaacta cacatatgta	1860
ttcctgatcg ccaacctttc cccaccagc taaggacatt tcccagggtt aatagggcct	1920
ggtccttggg aggaaatttg aatgggtcca ttttgccctt ccatagccta atccctgggc	1980
attgctttcc actgaggttg ggggttgggg tgtactagtt acacatcttc aacagacccc	2040
ctctagaaat ttttcagatg cttctgggag acacccaaag ggtgaagcta tttatctgta	2100
gtaaactatt tatctgtgtt tttgaaatat taaaccctgg atcagtcctt tgatcagtat	2160
aattttttta agttactttg tcagaggcac aaaagggttt aaactgattc ataataaata	2220
tctgtacttc ttcgatcttc accttttgtg ctgtgattct tcagtttcta aaccagcact	2280
gtctgggtcc ctacaatgta tcaggaagag ctgagaatgg taaggagact cttctaagtc	2340
ttcatctcag agaccctgag ttcccactca gaccactca gccaaatctc atggaagacc	2400
aaggagggca gcactgtttt tgttttttgt tttttgtttt ttttttttg acactgtcca	2460
aaggttttcc atcctgtcct ggaatcagag ttggaagctg aggagcttca gcctctttta	2520
tggtttaatg gccacctgtt ctctcctgtg aaaggctttg caaagtcaca ttaagtttgc	2580
atgacctgtt atccctgggg ccctatttca tagaggctgg ccctattagt gatttccaaa	2640
aacaatatgg aagtgccttt tgatgtctta caataagaga agaagccaat ggaaatgaaa	2700
gagattggca aaggggaagg atgatgcat gtagatcctg tttgacattt ttatggctgt	2760
atttgtaaac ttaaacacac cagtgtctgt tcttgatgca gttgctattt aggatgagtt	2820
aagtgcctgg ggagtccctc aaaagggtta agggattccc atcattggaa tcttatcacc	2880
agataggcaa gtttatgacc aaacaagaga gtactggctt tatectctaa cctcatattt	2940
tctcccactt ggcaagtcct ttgtggcatt tattcatcag tcagggtgtc cgattgggtcc	3000
tagaacttcc aaaggctgct tgtcatagaa gccattgcat ctataaagca acggctcctg	3060
ttaaatggta tctcctttct gaggtccta ctaaaagtca tttgttacct aaacttatgt	3120
gcttaacagg caatgcttct cagaccacaa agcagaaaga agaagaaaag ctctgacta	3180
aatcagggtt gggcttagac agagttgatc tgtagaatat ctttaaagga gagatgtcaa	3240
ctttctgcac tattcccagc ctctgctcct ccctgcctac cctctcccct ccctctctcc	3300
ctccacttca cccacaatc ttgaaaaact tcctttctct tctgtgaaca tcattggcca	3360

gatccatttt cagtgggtctg gattttctttt tattttcttt tcaacttgaa agaaactgga 3420
cattaggcca ctatgtgttg ttactgccac tagtgttcaa gtgcctcttg ttttcccaga 3480
gatttcctgg gtctgccaga ggcccagaca ggctcactca agctctttta ctgaaaagca 3540
acaagccact ccaggacaag gttcaaaatg gttacaacag cctctacctg tcgccccagg 3600
gagaaagggg tagtgatata agtctcatag ccagagatgg ttttccactc cttctagata 3660
ttccccaaaa gaggtgaga caggaggtta ttttcaattt tatttttgaa ttaaatactt 3720
ttttcccttt attactgttg tagtccctca cttggatata cctctgtttt cacgatagaa 3780
ataagggagg tctagagctt ctattccttg gccattgtca acggagagct ggccaagtct 3840
tcacaaaccc ttgcaacatt gcctgaagtt tatggaataa gatgtattct cactcccttg 3900
atctcaaggg cgtaactctg gaagcacagc ttgactacac gtcattttta ccaatgattt 3960
tcaggtgacc tgggctaagt catttaaact gggctctttat aaaagtaaaa ggccaacatt 4020
taattatttt gcaaagcaac ctaagagcta aagatgtaat ttttcttgca attgtaaatac 4080
ttttgctgtc cctgaagact tcccttaaaa ttagctctga gtgaaaaatc aaaagagaca 4140
aaagacatct tcgaatccat atttcaagcc tggtagaatt ggcttttcta gcagaacctt 4200
tccaaaagtt ttatattgag attcataaca acaccaagaa ttgattttgt agccaacatt 4260
cattcaatac tggtatatca gaggagtagg agagaggaaa catttgactt atctggaaaa 4320
gcaaaatgta cttaagaata agaataacat ggtccattca cttttatgtt atagatatgt 4380
ctttgtgtaa atcatttggt ttgagttttc aaagaatagc ccattgttca ttcttggtgt 4440
gtacaatgac cactgttatt gttactttga cttttcagag cacaccttc ctctggtttt 4500
tgcatattta ttgatggatc aataataatg aggaaagcat gatatgtata ttgctgagtt 4560
gaaagcactt attggaaaat attaaaaggc taacattaaa agactaaagg aaacagaaaa 4620
aaaaaaaaaa aaa 4633

<210> 582

<211> 770

<212> DNA

<213> Homo sapiens

<400> 582

ccaattagtg tcctaactct gtcttcccat agtaccacc aaaaagtgt ccatgctcaa 60
gtaagtttgg ttaaatgaag tagattgtca gaaagacaga aagattctca gtcttttaata 120
acactgatat gcattttgaa atatgtagtt aattctcaat ttattgcag aattctgcaa 180
acagtgggta acattgctta cagattttct gcatgttaat ttgaatcttt aatcatatta 240
aaatgcaaata actcctggga aggataatga acttcttaac ttgtaactga aaacattcac 300

```

acattttctc atagtgtcgt tgtttcaatt acttacctga aaagaacttt ttgtacggta    360
cagcacttgg ctgggttaat actcaccaac tttgagaagg ttgggtctctg ctcttctgta    420
tactttttat gaggcagtat cacttagggc ttaaggttta aactttcttt ttctctctgt    480
gttcatttca tattgagatt atggataaaa agtttgttct gacattgctt aacatttttc    540
tttaatcatg tgattacaga aattcaatga cttacaaaac aataaatgta ccttagaatg    600
aaaaatgcat cagtaagggtc tgtattttaa tgtggatgta gacatcataa ttaccaagac    660
aagaaattgt tttgagaaat tctctgatgt ttttcttctt caggtttcac gtgccacgat    720
catggtgcc a cgggtactgca gtatgcaccc aaacagcaac tcctaattctc    770

```

```

<210> 583
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<400> 583
tttttttttg tacatgactc tcattttatt gtttcttaga catttagaaa cctgggagta    60
agagcaaaaa ctcacggcct aattatgttt aactgatag tttaaagata ttttagcact    120
aaccagcatc aattcctaatt attcattcaa aatgtagca cttggtataa agaaggaaac    180
aggttgagca aggtgggtca tgctgtaat cccagtactt tggcaggctg aggtgggcag    240
atcacttgag cccaggagtt tgagaccaga ctgggcaaca tggcaaaacc ctgtctctac    300
aaacaatata aaaattagct gggtttggtg gtgtatgcct atagtcccag ctacttggga    360
ggctgaggca ggagaatcgc ttgaacctgg g    391

```

```

<210> 584
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (289)..(289)
<223> n is a, c, g, t or u

```

```

<400> 584
gtttcttgct tggggaaatg ttcacacccc cttgtggata cattgtccag cccagagttt    60
gtcctccctg gatatgtttt gaattaatga cggccgcacc tcctttctctg tatttatattg    120
gaattgcctg gtggaaggag gactctgctg cactcactga ctgtgtgatc tttggtaaatt    180
atcttaccct ctctgggctt agtttcccta gtggtaaagt ggaaatagtg ataactatct    240
tagatagctg ttgtgatgcc cacatgagat agcatctggg ctttaccnt tcccctcggt    300
ctgggcaata acgggttacc ttgcaaggat tgggcagaaa gccttagagg tatggtgctt    360

```

tgcagatggg caccgttgtg attaatgtgg gtgagttcca tgagaga 407

<210> 585

<211> 2324

<212> DNA

<213> Homo sapiens

<400> 585

gatgtggacc gtagtcggac cgttctaagc tccaaaagct gcggaattcc tcgagcactg 60

ttggcctact ggtctgctta aaattctgtt tttaaaaccc agtttcctag tttccaggc 120

aaatagctac ctccgggaaa gttgctgggg gggcctgaag cacaatgtag cgcagatgct 180

tcctttccag gccattctct caccagcct gcacggagga gatgggagat gctgggggtc 240

ctgccctcag tctttttggg ccttaggcgt ttcgttcac ctgctaagg gatgaagcaa 300

acacgaggtg attcctttgc ctttcagagt ggaagccctg gagtttggtt tgaaggccag 360

gaggctgaag gatctctaag ctacgggtgt ggcttaatag cagcaggctt tgtcctcctg 420

tctcctccaa gccagtgtct gattccttgg caacacaggt cttagtctgt ggagtggctc 480

tgctgtggcc ttcctctggc cgggcaggca ctgtccagcc atagccagct cctgagaata 540

ggtcagcctc tcctttctgt ctcccagggc acatccagcc cgtgcctgtg ttcactgtgc 600

cccgaagtgc aattacccat accccttctc agcctgggga cccaggcaa ccacagactg 660

tccactcagg ggagctgaat cccaggctcag ccctgccaat gtcccttagg aactgcccag 720

gcaaggcccc tggttttgta tacttgttcc tgccaccag cagtagatga gtgtttcagg 780

tgaagaccag gatagatttt ctaagtgtga atccccactt cacatatgga accccttatg 840

ctgaacttga aaagcaccaa gacttctgt agacaagaaa gtgcttaggt agggacagcc 900

cctgggcac ccaccaatg tagctggcac ccactatgg caaagggtgcc ttgataactg 960

agccctgtat ccctcccatg cccagccaga ttctcatggg aagccctctc ccttcttttc 1020

tgccctaacac catctcatcg tttctggcct cactgtggac aatccacaca cattcttctt 1080

tcctctcctg gcggggcaca gagccacccc cttgcctttt cttttcttga aggttctagt 1140

tcagctcctg attcatcaga cccttctagc cccctgcac tagcagtga gcatgaagcc 1200

tggtggggat gtggtactcc catctggtgt ggccaccagc tctgccaatg ttcctgtagc 1260

cttgaaaaac ttgctctctc ggttcttttg ggtgctgtgt actccccagc tccccctt 1320

cccccccat tttgcacctg ggtttagtga aaggatggca tttggttgac ccatatagaa 1380

accagaatg aggtctcagg gccaggaggc ctggtatttg taggccaggg aaggggaaga 1440

ggcaagtgg ctggggatc accagccagc cctctctgat ttggcctcta ctcccataa 1500

gtcacagtac cataagcagg cttctggcct cagcaatttg gtctttgtgc ccaagtttat 1560

tgtgagaatt tcttgaaaac tctataaaaag gtctcttctct actgtaggcc tctaattgttt	1620
ctccccctttt tgcttcagtc cactcttcag tcttgtaggc ctagttttca aacctgcaca	1680
tgtgtcctac ctggccacag gcatgcaggc ctcaggcagc tgggccagtt tgggagcctc	1740
gggtgatgtc tgcacgatct ggggctgcct ctgcaccctt gctgtgggct tcagggttgg	1800
agaaggggctg ggaccaaccg ggtgagatcc acaagtctct ggatgtggct gaaggcaa	1860
acacaattga agtactttct gttttgaagt gctttccctt ttgaatctgg tttgaa	1920
gcagcttctg tctctagccc aaggaaagac caaacatag ggaaataaaa gcatttatct	1980
ttgtcttggga agtaattgtt gaagttgtgc agttgatcag tgcacagtta ggtgcaatgt	2040
ttatagaaat tgattgttaa accaaattta cactggcatg tgtggtgtag tttctaaa	2100
gcacttcaca tttgaaattt ttcttacctt agaaagtttc tagtgatcta aatgtctagt	2160
tttgtattct tttgtgtgtg ttcactgttt ctcagtatta ccacttgaat aattctctgt	2220
acaggggggt ttgtgtata cactgggatg tctaattgca gcaataaagc ctttcttta	2280
aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa	2324

<210> 586
 <211> 1179
 <212> DNA
 <213> Homo sapiens

<400> 586	
atgggttctc tcagcacagc taacgttgaa ttttgccttg atgtgttcaa agagctgaac	60
agtaacaaca taggagataa catcttcttt tcttcgctga gtctgcttta tgctctaagc	120
atggtcctcc ttggtgccag gggagagact gcagagcaat tggagaagggt gcttcatttt	180
agtcatactg tagactcatt aaaaccaggg ttcaaggact cacctaagtg cagccaagct	240
ggaagaattc attccgagtt tgggtgtcgaa ttctctcaaa tcaaccagcc agactctaac	300
tgtaccctca gcattgcaa caggctctac gggacaaaga cgatggcatt tcatcagcaa	360
tatttaagct gttctgagaa atggtatcaa gccagggtgc aaactgtgga ttttgaacag	420
tctacagaag aaacgaggaa aatgattaat gcttgggttg aaaataaaac taatggaaaa	480
gtcgcaaatc tctttggaaa gagcacaatt gacccttcac ctgtaatggc cctgggtgaat	540
accatatatt tcaaaggaca aaggcaaaat aaatttcaag taagagagac agttaaaagt	600
ccttttcagc taagtgaagg taaaaatgta actgtggaaa tgatgtatca aattggaaca	660
tttaaaactgg cttttgtaaa ggagccgcag atgcaagttc ttgagctgcc ctacgttaac	720
aacaaattaa gcatgattat tctgcttcca gtaggcatag ctaatctgaa acagatagaa	780
aagcagctga attcggggac gtttcatgag tggacaagct cttctaacat gatggaaaga	840

```

gaagttgaag tacacctccc cagattcaaa cttgaaatta agtatgagct aaattccctg      900
ttaaaccctc taggggtgac agatctcttc aaccagggtca aagctgatct ttctggaatg      960
tcaccaacca agggcctata tttatcaaaa gccatccaca agtcatacct ggatgtcagc     1020
gaagaggggca cggaggcagc agcagccact ggggacagca tcgctgtaaa aagcctacca     1080
atgagagctc agttcaaggc gaaccacccc ttctgttctt ttataaggca cactcatacc     1140
aacacgatcc tattctgtgg caagcttgcc tctccctaa                               1179

```

<210> 587
 <211> 822
 <212> DNA
 <213> Homo sapiens

```

<400> 587
gatcctcttt ccctcttccc caccctcatt ataggctgcg aagcctcctc tctgcacctg      60
ataacaaaac gtcatatgag aagcatggta gatccttagc atcaaagggt gaggactctt     120
attctgatta taagtagtgg ctcttgacta caatcaagtc tcaaataata gtgtaagaga     180
ataaagcaga ataataagac taagttaaca gtttaggctt ctttggaatc atgcgggcct     240
agatgaaaat cccaacactg tcctttacta gctaagtgac cttgagcaac tgattacacc     300
ctttgatgcc tcagttttct cctctgtggt gtggggtaat agtaatatct acttcctggg     360
gttggttcgtg aagattaatt aacaattata cttgtcaaag ctttagcaca gtgccctgta     420
tgttatttcc ttggccaaac tttcttactc tgccatttgt tcaatgtcct aatgagcatg     480
aacactacat taggtatcat gcagaacact ctaaagataa gtattatgat ctctatttca     540
cagataagga aattttaaact gggagaggct aaagggtgta cttgcccag gtcacttgaa     600
actaatatgc cagcagagac agaattagga gccaagtata tttaagagcc aagtgtattg     660
aacctaaaat ctgggctcct aaataccaag cttcactggc tctctggtcc cagtgagagt     720
tggtgctaaa aagtattccg gaatgaaaag ttctcttcca gagaccctgg ccttccaaag     780
cggtcacctg atagggaagt cttacggcta ggaagttaca aa                               822

```

<210> 588
 <211> 3129
 <212> DNA
 <213> Homo sapiens

```

<400> 588
cgactcgtcg ccattcccgg agcaggctgg cctcggccca ggggcgagta tccgttgctg      60
tgtcggagac actagtcccc gacaccgaga cagccagccc tctcccctgc ctgcggcggg     120
gagagcgtgt ccggccgggc ggccggcggg gctcgcgcaa cctccctcgc ctccccttcc     180

```


cccgagcct	ccgccccgcc	aggccccggc	cggactcccc	agccccggcc	tcctcgctct	240
cggtcgccgc	tgccgcccggg	cttaacagcc	ccgtccgccg	cttctcttcc	tagtttgaga	300
agccaaggaa	ggaaacaggg	aaaaatgtcg	ccatgaaggc	cgagaaccgc	tgccgcccgc	360
gacccccgcc	ggccctgaac	gccatgagcc	tgggtccccg	ccgcgcccgc	tccgctccga	420
ctgccgtcgc	cgccgaggcc	cccgttgatg	ccgctgagct	cccccaacgc	cgccgccacc	480
gcctccgaca	tggacaagaa	cagcggctcc	aacagctcct	ccgcctcttc	gggcagcagc	540
aaagggcaac	agccgccccg	ctccgcctcg	gcggggccag	ccggcgagtc	taaacccaag	600
agcgatggaa	agaactccag	tggatccaag	cgttataatc	gcaaacgtga	actttcctac	660
cccaaaaatg	aaagttttta	caaccagtcc	cgctcgctcca	gttcacagaa	aagcaagact	720
tttaacaaga	tgcctcctca	aaggggcggc	ggcagcagca	aactctttag	ctcttctttt	780
aatggtggaa	gacgagatga	ggtagcagag	gctcaacggg	cagagttag	ccctgcccag	840
ttctctggtc	ctaagaagat	caacctgaac	cacttggtga	atttcacttt	tgaaccccgt	900
ggccagacgg	gtcactttga	aggcagtggg	catggtagct	ggggaaagag	gaacaagtgg	960
ggacataagc	cttttaacaa	ggaactcttt	ttacaggcca	actgccaatt	tgtggtgtct	1020
gaagaccaag	actacacagc	tcattttgct	gacctgata	cattagttaa	ctgggacttt	1080
gtggaacaag	tgcgcatthg	tagccatgaa	gtgccatctt	gccaatatg	cctctatcca	1140
cctactgcag	ccaagataac	ccgttggtga	cacatcttct	gctgggcatg	catcctgcac	1200
tatctttcac	tgagtgagaa	gacgtggagt	aaatgtccca	tctgttacag	ttctgtgcat	1260
aagaaggatc	tcaagagtgt	tgttgccaca	gagtcacatc	agtatgttgt	tgggtgatacc	1320
attacgatgc	agctgatgaa	gagggagaaa	gggtgttg	tggctttgcc	caaataccaaa	1380
tggatgaatg	tagaccatcc	cattcatcta	ggagatgaac	agcacagcca	gtactccaag	1440
tttctgctgg	cctctaagga	gcaggtgctg	caccgggtag	ttctggagga	gaaagtagca	1500
ctagagcagc	agctggcaga	ggagaagcac	actcccagat	cctgctttat	tgaggcagct	1560
atccaggagc	tcaagactcg	ggaagaggct	ctgtcgggat	tggccggaag	cagaagggag	1620
gtcactggtg	ttgtggctgc	tctggaacaa	ctggtgctga	tggctccctt	ggcgaaggag	1680
tctgtttttc	aacccaggaa	gggtgtgctg	gagtatctgt	ctgccttcga	tgaagaaacc	1740
acggaagttt	gttctctgga	cactccttct	agacctcttg	ctctccctct	ggtagaagag	1800
gaggaagcag	tgtctgaacc	agagcctgag	gggttgccag	aggcctgtga	tgacttggag	1860
ttagcagatg	acaatcttaa	agaggggacc	atttgactg	agtccagcca	gcaggaaccc	1920
atcaccaagt	caggcttcac	acgcctcagc	agctctcctt	gttactactt	ttaccaagcg	1980
gaagatggac	agcatatgtt	cctgcaccct	gtgaatgtgc	gctgcctcgt	gcgggagtag	2040

ggcagcctgg agaggagccc cgagaagatc tcagcaactg tggaggagat tgctggctac 2100
 tccatgtctg aggatgttcg acagcgtcac agatatctct ctcacttgcc actcacctgt 2160
 gagttcagca tctgtgaact ggctttgcaa cctcctgtgg tctctaagga aaccctagag 2220
 atgttctcag atgacattga gaagaggaaa cgtcagcgcc aaaagaaggc tcgggaggaa 2280
 cgccgccgag agcgcaggat tgagatagag gagaacaaga aacagggcaa gtacccagaa 2340
 gtccacattc cctcagagaa tctacagcag tttcctgcct tcaattctta tacctgctcc 2400
 tctgattctg ctttgggtcc caccagcacc gagggccatg gggccctctc catttctcct 2460
 ctcagcagaa gtccagggtc ccatgcagac tttctgctga cccctctgtc acccactgcc 2520
 agtcagggca gtccctcatt ctgcgttggg agtctggaag aagactctcc cttcccttcc 2580
 tttgcccaga tgctgagggt tggaaaagca aaagcagatg tgtggcccaa aactgctcca 2640
 aagaaagatg agaacagctt agttcctcct gcccctgtgg acagcgacgg ggagagtgat 2700
 aattcagacc gtgttcctgt gccagtttt caaaattcct tcagccaagc tattgaagca 2760
 gccttcatga aactggacac accagctact tcagatcccc tctctgaaga gaaaggagga 2820
 aagaaaagaa aaaaacagaa acagaagctc ctgttcagca cctcagtcgt ccacaccaag 2880
 tgacactact ggcccaggct accttctcca tctgggtttt gtttttgttt ttttttcccc 2940
 catgcttttg tttggctgct gtaattttta agtatttgag tttgaacaga ttagctctgg 3000
 ggggaggggg tttccacaat gtgaggggga accaagaaaa ttttaaatac agtgtatttt 3060
 ccagcttctc gtctttacac caaaataaag tattgacaca agagaaaaaa aaaaaaaaaa 3120
 aaaaaaaaaa 3129

<210> 589

<211> 3116

<212> DNA

<213> Homo sapiens

<400> 589

agcgctcaga tacgcgacgc gtagcaggcg gggaccgaac gggcgctca gtgtccttcc 60
 cctccccctc cctggcctcg ccgtcctctc cccgcagccg gaccggaact atgtgatccc 120
 ggaagtccg gggcctttgc tgtgtgggat aaacagtaat ggcggaggct gcaactcccg 180
 gaacaacagc cacaacatca ggagcaggag cggcagcggc gacggcggca gcagcctccc 240
 ccaccccgat cccacagtc accgccccgt ccctgggggc gggcggaggg ggcggcggca 300
 gcgacggcag cggcggcggc tggactaaac aggtcacctg caggatatttt atgcatgggg 360
 tttgtaagga aggagacaac tgtcgctact cgcagacct ctctgacagt ccgtatagtg 420
 tagtgtgcaa gtattttcag cgagggtact gtatttatgg agaccgctgc agatatgaac 480

atagcaaacc attgaaacag gaagaagcaa ctgctacaga gctaactaca aagtcatccc	540
ttgctgcttc ctcaagtctc tcatcgatag ttggaccact tgttgaaatg aatacaggcg	600
aagctgagtc aagaaattca aactttgcaa ctgtaggagc aggttcagag gactgggtga	660
atgctattga gtttgttcct gggcaaccct actgtggccg tactgcgcct tcctgcactg	720
aagcaccctt gcaggggtca gtgaccaagg aagaatcaga gaaagagcaa accgccgtgg	780
agacaaagaa gcagctgtgc ccctatgctg cagtgggaga gtgccgatac ggggagaact	840
gtgtgtatct ccacggagat tcttgtgaca tgtgtgggct gcagctcctg catccaatgg	900
atgctgcccc gagatcgag catatcaaat cgtgcattga ggcccatgag aaggacatgg	960
agctctcatt tgccgtgcag cgcagcaagg acatggtgtg tgggatctgc atggagggtgg	1020
tctatgagaa agccaacccc agtgagcgcc gcttcgggat cctctccaac tgcaaccaca	1080
cctactgtct caagtgcatt cgcaagtga ggagtgttaa gcaatttgag agcaagatca	1140
taaagtccctg ccagaaatgc cggatcacat ctaactttgt cattccaagt gactactggg	1200
tggaggagaa agaagagaag cagaaactca ttctgaaata caaggaggca atgagcaaca	1260
aggcgtgcag gtattttgat gaaggacgtg ggagctgccc atttggaggg aactgttttt	1320
acaagcatgc gtaccctgat ggccgtagag aggagccaca gagacagaaa gtgggaacat	1380
caagcagata ccgggccccaa cgaaggaacc acttctggga actcattgag gaaagagaga	1440
acagcaaccc ctttgacaac gatgaagaag aggttgtcac ctttgagctg ggcgagatgt	1500
tgcttatgct tttggctgca ggtggggacg acgaactaac agactctgaa gatgagtggg	1560
acttgtttca tgatgagctg gaagattttt atgacttgga tctatagcaa ccttgcgtgg	1620
cgtgtgaact ggtctgctga cctcagacag cagctgtccc ctgtggtggt gtggcagtgc	1680
ctgtgttctc tcctaggcag gcctctcaac tccagggtgt gtcctaagaa tttttaccca	1740
gggcctgtct tctcaacccc tcacctttcc ctgaggagtg tgttgttttc cctgttgaaa	1800
aaagttacaa aaataaatct taaagttagt tttttgtaac acgaatttaa ctgtcagaca	1860
gttagtgtag gtgtgttgcg tcatctgttt tcaaccagat tgcatttatg gacttttcac	1920
acactcattt tgaggacccc aggttcaaaa gtaaaagcag tggccctgct ttgggggtcca	1980
agaataggag tgatgggtga agggacctaa gctggccaat agccctctgc ccagacatg	2040
ggatgtggat ccttgagggt tctgggtgaaa tctgcacatc tgtgttttta tatctgttcc	2100
ctaccctgta atccctacca cgtgcacttg ttctgtggtt ttggtctctt gtttaattgc	2160
acacaagtaa tactactggg taaccagaat caggtgtgaa tgtgttgaga ttttttactg	2220
ttttgcatga taggaaaatt gagaaagaat acgtataaaa gatagagagg cataacatca	2280

atgcagagtt ggaagttggc tcccaagggc tgacatgggtg tgagtgtgtg ggtgtgtgat	2340
aagctttctca tccctgcata gatgcagtat tcttagcctt agtagaaaaa cctgggtttag	2400
tggtttaagc cttgtgtggc agatagatct taaagggcaa agcagtatat tggtagttgt	2460
caatatagca gtgctagctc tgtctatata aatagagaaa tgggggttagc catagagggt	2520
aaaactacct gggtatccca tataataaca caaactgggt cttggatata cagttgtatt	2580
taatgtttta cgatctagcc tttccagtac aggcactttc tgagaaacct ttgtcctcac	2640
ttgaggcatt ttgttgtcgg gtttttgtgt ttgtttttgt gggattttgc ctcattccac	2700
ccctgagctt tcaggtagac agacgtgatt caaaactctg ttctaagggtg tttattgtag	2760
tgagagtaatg ggtttgcagt gataagtcac acttttccac cgaaaggag ggcttgggaa	2820
tccctgagat tagctaaagt taagttgttg gaagaattcc ttgattggaa attgtacctt	2880
tgtgttttgt tgctctgttt cctgaaaata actcggggat gtccttggtt tgtccatcta	2940
ctgctttgat tccttgatc ccaccattc tttcacttta agaaaaaaca aataattgtt	3000
gcagaggctc ctgtattttg cagctgcctt tttgtaagaa gcacttttcc caaataaaac	3060
aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa	3116

<210> 590
 <211> 570
 <212> DNA
 <213> Homo sapiens

<400> 590	
ttttccggtt gcggcgccgc gcggtgaggt tgtctagtc acgctcggag ccatgccgtc	60
caagggcccg ctgcagtctg tgcaggtctt cggacgcaag aagacagcga cagctgtggc	120
gcactgcaaa cgcggaatg gtctcatcaa ggtgaacggg cggcccctgg agatgattga	180
gccgcgcacg ctacagtaca agctgctgga gccagttctg cttctcggca aggagcgatt	240
tgctgggtga gacatccgtg tccgtgtaaa ggggtgggtg cacgtggccc agatttatgc	300
tatccgtcag tccatctcca aagccctggt ggcctattac cagaaatatg tggatgaggc	360
ttccaagaag gagatcaaag acatcctcat ccagtatgac cggaccctgc tggtagctga	420
ccctcgtcgc tgcgagtcca aaaagtgttg aggcctggt gccgcgctc gctaccagaa	480
atcctaccga taagcccatc gtgactcaaa actcacttgt ataataaaca gtttttgagg	540
gattttaaag tttcaaaaaa aaaaaaaaaa	570

<210> 591
 <211> 5925
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (5402)..(5402)
 <223> n is a, c, g, t or u

<400> 591
 cttttcccat cgtgtagtca agagtctgtg ccagacttga aggctttact ttgttagcca 60
 tgtgtttatg aacccccagc gctttcccta gatcttttgg ctgataatct caaacatgga 120
 ggatgcttct gaatcttcac gaggggttgc tccattaatt aataatgtag ttctcccagg 180
 ctctccgctg tctcttctg tatcagtac aggctgtaaa agtcatcgag tagccaataa 240
 aaaggtagaa gcgaggagtg aaaagctcct cccaacagct cttcctcctt cagagccgaa 300
 agtagatcag aaacttccca ggagctccga gaggcgggga agtggcgggtg ggacgcaatt 360
 ccccgcgcg gtcggggcag tggcagcggg agaagcggca gccaggggcg cggcggggcc 420
 ggagagaggc agtcccctgg gaagacgggt cccccctcgt tgcctttgta gtggagaagg 480
 tggacaagtg gcagtcggcg tgatcgcagg gaagcggggc cggcgcgggc gcgacgggtc 540
 caggcgagcc ccgggcggac gggagatgcc gctgctacac cgaaagccgt ttgtgagaca 600
 gaagccgccc gcggacctgc ggcccagca ggaagttttc tactgtaaag tcaccaacga 660
 gatcttccgc cactacgatg acttttttga acgaaccatt ctgtgcaaca gccttgtgtg 720
 gagttgtgct gtgacgggta gacctggact gacgtatcag gaagcacttg agtcagaaaa 780
 aaaagcaaga cagaatcttc agagttttcc agaaccacta attattccag ttttatactt 840
 gaccagcctt acccatcggt cgcgcttaca tgaaatttgt gatgatatct ttgcatatgt 900
 caaggatcga tattttgtcg aagaaactgt ggaagtcatt aggaacaatg gtgcaagggt 960
 gcagtgtacg attttggaag tcctccctcc atcacatcaa aatggttttg ctaatggaca 1020
 tgttaacagt gtggatggag aaactattat catcagtgat agtgatgatt cagaaacaca 1080
 aagctgttct tttcaaaatg ggaagaaaaa agatgcaatt gatcccttac tattcaagta 1140
 taaagtgcaa ccactaaaa agaattaca tgagtctgct attgttaaag caacacaaat 1200
 cagccggaga aaacacctat tttctcgtga taaactaaag ctttttctga agcaacactg 1260
 tgaaccacaa gaaggagtca ttaaaataaa ggcacatct ctttcaacgt ataaaatagc 1320
 agaacaagat ttttcttatt tcttccctga tgatccaccc acatttatct tcagtcctgc 1380
 taacagacga agagggagac ctcccaaagc aatacatatt agtcaagagg acaatgttgc 1440
 taataaacag actcttgcaa gttataggag caaagctact aaagaaagag ataaactttt 1500
 gaaacaagaa gaaatgaagt cactggcttt tgaaaaggct aaattaaaaa gagaaaaagc 1560
 agatgccta gaagcgaaga aaaaagaaaa agaagataaa gagaaaaaga ggggaagaatt 1620

gaaaaaaatt gttgaagaag agagactaaa gaaaaaagaa gaaaaagaga ggcttaaagt	1680
agaaagagaa aaggaaagag agaagttacg tgaagaaaag cgaaagtatg tggaataactt	1740
aaaacagtgg agtaaaccta gagaagatat ggaatgtgat gaccttaagg aacttccaga	1800
accaacacca gtgaaaacta gactacctcc tgaaatcttt ggtgatgctc tgatgggtttt	1860
ggagttcctt aatgcatttg gggaactttt tgatcttcaa gatgagtttc ctgatggagt	1920
aaccctagaa gtattagagg aagctcttgt tggaaatgac agtgaaggcc cactgtgtga	1980
attgcttttt ttcttctga ctgcaatctt ccaggcaata gctgaagaag aagaggaagt	2040
agccaaagag caactaactg atgctgacac caaaggctgc agtttgaaaa gtttggatct	2100
tgatagctgc actctttcag aaatcctcag actgcacatc ttagcttcag gtgctgatgt	2160
aacatcagca aatgcaaagt atagatatca aaaacgagga ggatttgatg ctacagatga	2220
tgcttgatg gagcttcgtt tgagcaatcc cagtctagtg aagaaactgt caagcacctc	2280
agtgtatgat ttgacaccag gagaaaaaat gaagatactc catgctctct gtggaaagct	2340
actgacccta gtttcaacta gggattttat tgaagattat gttgatatat tacgacaggc	2400
aaagcaggag ttccgggaat taaaagcaga acaacatcga aaagagaggg aagaagcagc	2460
tgccagaatt cgtaaaagga aggaagaaaa acttaaggag caagaacaaa aaatgaaaga	2520
gaaacaagaa aaactgaaag aagatgagca aagaaattca acggcagata tatctattgg	2580
ggaggaagaa agggaagatt ttgatactag cattgagagc aaagacacag agcaaaagga	2640
attagatcaa gatatgttca ctgaagatga agatgaccca ggatcacata aaagaggcag	2700
aagggggaaa agaggacaaa atggatttaa agaatttaca aggcaagaac agatcaactg	2760
tgtaacaaga gagcttctta ctgctgatga ggaagaagca ttaaaacagg aacaccaacg	2820
aaaagagaaa gagctcttag aaaaaatcca aagtgccata gcctgtacca atatctttcc	2880
cttgggtcgc gaccgcatgt atagacgata ctggattttc ccttctattc ctggactctt	2940
tattgaagag gattattctg gtcttactga agacatgctg ttgcctagac cttcatcatt	3000
tcagaataat gtacagtctc aagatcctca ggtatccact aaaactggag agcctttgat	3060
gtctgaatct acctccaaca ttgaccaagg tccacgtgac cattctgtgc agctgccaaa	3120
accagtgc atagccaaatc ggtgggtgctt ttacagttct tgtgaacagc tagaccagct	3180
tattgaagct cttaattcta gaggacatag agaaagtgcc ttaaaagaaa ctttgttaca	3240
agagaaaagc agaatatgtg cacagctagc ccgtttttct gaagagaaat ttcatttttc	3300
agacaaacct cagcctgata gcaaaccaac atatagtcgg ggaagatctt ccaatgcata	3360
tgatccatct cagatgtgtg cagaaaagca acttgaacta aggctgagag attttctttt	3420
agatattgaa gatagaatct accaaggaac attaggagcc atcaaggtta cagatcgaca	3480

tatctggaga	tcagcattag	aaagtggacg	gtatgagctg	ttaagtgagg	aaaacaagga	3540
aaatgggata	attaaaactg	tgaatgaaga	cgtagaagag	atggaaattg	atgaacaaac	3600
aaaggtcata	gtaaaagaca	gacttttggg	gataaaaaca	gaaactccaa	gtactgtatc	3660
aacaaatgca	agtacaccac	aatcagtgag	cagtgtgggt	cattatctgg	caatggcact	3720
ctttcaaata	gagcagggca	ttgagcggcg	ttttctgaaa	gctccacttg	atgccagtga	3780
cagtgggcgt	tcttataaaa	cagttctgga	ccgttggaga	gagtctctcc	tttcttctgc	3840
tagtctatcc	caagtttttc	ttcacctatc	caccttggat	cgtagcgtga	tatggtctaa	3900
atctatactg	aatgcgcggt	gcaagatatg	tcgaaagaaa	ggcgatgctg	aaaacatggt	3960
tctttgtgat	ggctgtgata	ggggtcacat	tacctaactg	gttcgaccaa	agctcaagac	4020
tgtgcctgaa	ggagactggg	tttgtccaga	atgtcgacca	aagcaacggt	gtagaagact	4080
gtcctttaga	cagagaccat	ccttggaaag	tgatgaagat	gtggaagaca	gtatgggagg	4140
tgaggatgat	gaagttgatg	gcgatgaaga	agaaggtaa	agtgaggagg	aagagtatga	4200
ggtagaaca	gatgaagatg	actctcaaga	agaggaagaa	gtcagcctac	ccaaacgagg	4260
aagaccacaa	gttagattgc	cagttaaaac	aagagggaaa	cttagctctt	ctttctcaag	4320
tcgtggccaa	caacaagaac	ctggaagata	cccttccagg	agtcagcaga	gcacacccaa	4380
aacaactggt	tcttctaaaa	ctggtagaag	cctaagaaag	ataaactctg	ctcctcctac	4440
agaaacaaaa	tctttaagaa	ttgccagtcg	ttctactcgc	cacagtcatg	gccactgca	4500
agcagatgta	tttgtggaat	tgcttagtcc	tcgtagaaaa	cgcagaggca	ggaaaagtgc	4560
taataataca	ccagaaaata	gtcccaactt	ccctaacttc	agagtcattg	ccacaaagtc	4620
aagtgaacag	tcaagatctg	taaatattgc	ttcaaaactt	tctctccaag	agagtgaatc	4680
caaaagaaga	tgcaaaaaa	gacaatctcc	agagccatcg	cctgtgacac	tgggtcgaag	4740
gagttctggc	cgacagggag	gagttcatga	attgtctgct	tttgaacaac	ttgtttaga	4800
attggtacga	catgatgaca	gctggccttt	tttgaaactt	gtttctaaaa	tccaggtccc	4860
agactactat	gacatcatca	aaaagcccat	tgcttaaat	ataattcgtg	aaaaagtga	4920
taagtgtgaa	tataaattag	catctgagtt	tattgatgac	attgagttaa	tgttttcgaa	4980
ctgctttgaa	tacaaccctc	gtaacacaag	tgaagcaaaa	gctggaacta	ggcttcaagc	5040
atTTTTTcat	attcaggctc	aaaagcttgg	actccacgtc	acaccagta	atgtggacca	5100
agtttagcaca	ccaccggctg	cgaaaaagtc	acgaatctga	ctttgtcctt	ctaaaggata	5160
tatttgaaga	aaaacaaatt	gttcatgaaa	atggaacatt	aatcatgct	gtataaagca	5220
ataacaaaca	attgattgac	cacatgaaag	tgtggcctgc	actatattct	caattttaat	5280

attaagcact caggagaatg taggaaagat atcctttgct acagttttgt tcagtatcta 5340
 ataagtttga tagatgtatt ggatacagta ctggttttaca gaggtttttg tacatttttg 5400
 anatcattca tgtgtccaga gatcttgga aatatttttt caccacgat ttattttggt 5460
 attgatgatt tattttttaa gtggtggtat taaggagag ttatctacat ggatgagtct 5520
 tccgctatag cacagtttag aaaagggtgt tatgtcttaa ttaattgttt gagtacattc 5580
 tttcaacact acacatgaat gaatccaatc ttataacctt gaagtgtgt accagtgtgt 5640
 gctgcaggta ttaagtccaa gtttattaac tagatattta tttagtattg agagtaattt 5700
 gtgaatttgt tttgtattta taaaatttat acctggaaaa tgttccttaa tgttttaaac 5760
 cttttactgt gtttttattc ctctaacttc cttaatgatc aatcaaaaaa agtaacaccc 5820
 tccctttttc ctgacagttc tttcagcttt acagaactgt attataagtt ctatgtataa 5880
 ttttaactgt tcaaataaaa tacatttttc caataaaaaa aaaaa 5925

<210> 592
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 592
 tttttttttt tttttttaa tgtacacctc ctttaatctg atttttctcc tttttgaaac 60
 agggctctcc tgtcacccag gctggagtgc agcagtcaa tcacagctca ctgcagcctt 120
 gacatcccag ggttcaagcg atcctcccg ctcagcctcc cgagtagccg ggaccacagg 180
 agcgcaccac cacacccgga taattttttg tagagatggg gtttcaccgt gttgccagg 240
 tcaactctcaa actcctgggc tcaagcgatc tgccctgcctt ggtcttccaa agtcctggga 300
 ttataggcgt gagccaccat gccagcctt aatcatttta agtggaatg taaccatttt 360
 aggataatgt cctacaaaaa cgtgagtaca agcaagcaaa gacatttgca gaaagatttt 420
 cacagatgat gtgagtctaa tgccaaaaa ctaaacacag ctttttgg 468

<210> 593
 <211> 1154
 <212> DNA
 <213> Homo sapiens

<400> 593
 gggggccttc cggcgggtga cattcagccg gcggttcggg gcgacggact ctccattcca 60
 gaaccatggc ccaatttgtc cgtaaccttg tggagaagac cccggcgctg gtgaacgctg 120
 ctgtgactta ctcgaagcct cgattggcca catttttgta ctacgccaag gttgagctgg 180
 ttcctccac cctgctgag atccctagag ctattcagag cctgaaaaa atagccaata 240
 gtgctcagac tggtagcttc aaacagctca cagttaagga agctgtgctg aatggtttgg 300


```

tggccactga ggtgttgatg tggttttatg tcggagagat tataggcaag cggggcatca      360
ttggctatga tgtttgaaga ccaatcttta acatctgatt atatttgatt tattatttga      420
gtgttggttg accatgtgtg atcagactgc tatctgaata aaataagatt tgtcaaaact      480
cagtgttttc tccatcagat actccatgaa aggtcacaat ttctcttgat attaagctgg      540
gttgtcttta aacaacccta aatacacgtc tgtttagccc gcaattggaa aggatatatg      600
tggcaatatt aacctgggtac atgaatatat ggggataaca ttttaatttg aagggttgga      660
atatatatat ttaagcttta tttccagaac agtgagggtt aggtcttggg aaaactataa      720
cttgccaaag tagaagaaat agtagtacca tatgccaaag tgatagagat gaatcatgtc      780
agtagttaga ataacatttc aactgttttc ttgctaaaa tcacagaaag accctattga      840
caacatctat gtctgtaaaa atgttagagt acttgctatc ttgaatatag cctccccaag      900
agagaacagg gtggtattct aagtatgttt ctttgaaca tctttagcag taggacagag      960
ccatacatgt gaaatctgat ttttatgtgt gttattcggt tgtctgggtt tactaccttt    1020
gcaaaaaaca aataccccaag agatatttaa acaagggttat aatttagcat cttccctgga    1080
tctaaatagt atattatatc ctgaaataaa tgaaatgatt gctcaaaaaa aaaaaaaaaa    1140
aaaaaaaaaa aaaa                                                         1154

```

```

<210> 594
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (8)..(44)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (263)..(372)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (408)..(408)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (423)..(423)
<223> n is a, c, g, t or u

```

```

<400> 594
tacaagcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaaagaa gtaaaatctt      60

```

tatcatgaaa tttatatgta aaagaatcac tcagtaaaga caatttccat aaaataaaaa	120
tggatatgga tactatttaa ctatgttgta ttaaaaaaaaa ctgatcaaag aattggttta	180
atggaaaatg ctctggaaaa ttcttttgca acagttcatc gctgttgata taatccta	240
taaaattatc ggactccagt tttnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn	300
nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn	360
nnnnnnnnnn nnagagaaaag ttgcacgtgt gcacgtttcc ttgccgcnga aggtaaaaaa	420
aanaaaaaag agga	434

<210> 595
 <211> 1424
 <212> DNA
 <213> Homo sapiens

<400> 595	
ggcacgaggg ccacatggac ggagctgccg gggcggcggc gccgggagca ggatgcggcc	60
gcccgttaatt aaatagcatt tactcttatt attactaata ataataacgt aatcatacct	120
ctagtcatag cataccattt atcgggctcg gcgcaggccc gcggggagcg cagcccggcg	180
gaggtctccc tctgatgccg agccgaagct ggacggtact gctgccatct cggctcactg	240
caacctccct gcctgattct cctgcctcag cctgccgagt gcctgcgatt gaaggcgtgc	300
gccgccacgc ctgactgggt ttcgtatttt tttggtggag acgggggttc gctgtgttg	360
ccgggctggt ctccagctcc taaccgcgag tgatgcacca gcctcggcct cccgaggtgc	420
cgggattgca gacggagtct cgttcactca gtgtcfaatg gtgccaaaggc tggagtgcag	480
tggcgtgatc tcggctcgct acaacctcca cctcccagca gcctgccttg gcctcccaaa	540
gtgccgagat tgcagcctct gcccgccgc caccctgtct gggaagtgag gagcgtctct	600
gcctggccgc ccatcgtctg ggatgtgagg agcccctctg cctggctgcc cagtctggaa	660
agtgaggagc gtctctgccc agccgccatc ccatctagga agtgaggagc gcctcttccc	720
ggccgccatc ccatctggga agtgaggagc gtctctgccc ggccgcccac cgtctgagat	780
gtggggagca cctctgccct gccaccccggt ccgggatgtg aggagcgtct ctgcccggcc	840
gccccatctg agaagtgagg agcccctccg cccggcagcc gcccgtctg agaagtgagg	900
agcccctccg cccagcagcc accccgtctg ggaagtgagg agcgtctccg cccggcagcc	960
acctcgtccg ggagggagggt cgggggggtca gcccccgcc cggccagccg ccccgctccag	1020
gaggaaactc ttggatgatg tactgaccaa aacagggaat aacctaacag agaggaagac	1080
agggatttta ggaaaccgga gatcacacag gaaggaggta aagggaatc ccaggatgat	1140
ggcaaaggga agtccccaaa caacagctgt gcaacaagaa taaagaacaa tcagaggacc	1200

tcttgagccc	agaggtcaag	gctgcggtga	gccaaggtcg	tgccactaca	ctgaagcctg	1260
ggcaacagag	tgagaccctg	tctcaaaaca	gaaaaggacc	tatcagcccc	aagtggagca	1320
gaacagaggg	atttgggagg	aatgtcctca	gaaaaagata	ttaaaacaca	gttatctgaa	1380
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa		1424

<210> 596
 <211> 2120
 <212> DNA
 <213> Homo sapiens

<400> 596	
cgcattgtgg	60
actcctacgt	120
aagaaaaatt	180
ctgaagaaca	240
gtctggataa	300
cagatgcgga	360
gcacagactg	420
gccaggttcg	480
tggcacagaa	540
gaatttgctg	600
tcagtgtctt	660
tgcccttaat	720
accagggtcag	780
agccataacc	840
tgagtcttaa	900
tttgcatgag	960
tcccaacact	1020
actgggcaac	1080
tgtgctatgt	1140
tttctgtgaa	1200
ggtgcaaaag	1260
ggccagaact	1320
ctaaaaaaaa	1380

```

gatgttgtca ataggaaatg ggataaaaata tcaagagaca atgaaaacac tgccttgaca 1440
tgaggaccag caagttttatt ctttttcattt tcagtgatgt tgggaatgga ctgggtttta 1500
aaagggagct tgaagagggga atgttttgaca gtcacagaag gttcctgcag cagatgcctc 1560
tttttagccat ttctcatttt tttcctcaaa ttttacctac tgaggctcaa gccttcacag 1620
tgagctgatg gtctctacag ggaggggagt ctagggaatt tatttggtat ttgtaaggca 1680
agaggtgatt tctctctaata atatctgagt tattgctcat ttaaaactgt taagtccagt 1740
ataattttcc ctgatatgaa aaaatgtgca tttttttcac ttagcaacaa agtaccttct 1800
aattttccaat agtccgtgaa agttggggct gaagtaccta agtgtgaatg tctctcccgt 1860
taaactgagt gtagaaatct gaatttttaa aagagctgta actagttgta agtgcttagg 1920
aagaaacttt gcaaacattt aatgaggata cactgttcat ttttaaaatt ccttcacact 1980
gtaatttaat gtgtttttata ttcttttgta gtaaaacaac ataactcaga tttctacagg 2040
agacagtggg tttatttgga ttgtcttctg taataggttt caataaagct ggatgaactt 2100
aaaaaaaaa aaaaaaaaaa 2120

```

<210> 597
 <211> 551
 <212> DNA
 <213> Homo sapiens

```

<400> 597
tttttttttt tttttttgca cacacatata tttttatttg agagtttaaa aggaaatctg 60
aggtccagag gatcacagag cctcttggtc tgctatcaaa ggaccaataa gaagcaaact 120
gatattacag ggcaaagtgt cccagacagc ccagcctgct ccccttagga atgagtgtcc 180
ctggaggggg agagcctgga accaaagccc cgccaggaac tgcttcccct aaactgaggt 240
tctctgaaaa aaatgttcgc ctggctgata aagccgcctc ttaacagagc ccagacactt 300
ctgtgcttcc cctgggttgc taattgagga cactaaagcc ctaagagata cccaggtcg 360
ggggaagggg cccaagacc tagacctccg gtggcgacca tgcccttgag aggatgggag 420
ctgaattgga gcacgagatt atttatcata gctggatgaa gcttccagct agagctcagt 480
atttcctctt tttctgggct cagacagaca cagactggaa ggaatcctgt ccgtttggct 540
gtgggagtgt t 551

```

<210> 598
 <211> 1458
 <212> DNA
 <213> Homo sapiens

```

<400> 598
ttagttcctc ggggagcccc tgggtgcccc gatacggtg attttgtcgt gtgggacctg 60

```

ttctggctgc tccagcccca ggaaggaccc aggacacccg gaagccggaa atggactcag	120
tggcctttga ggatgtggct gtgaacttca cccaggagga gtgggctttg ctgagtcctt	180
cccagaagaa tctctacaga gatgtgacgc tggaaacctt caggaacctg gcctcggtcg	240
gaatccaatg gaaagaccag gacattgaga atctgtacca aaacctgggg attaagctaa	300
gaagtctggt ggagagactc tgtggacgta aagaaggga tgaacacaga gaaactttca	360
gccagattcc tgattgtcac ctgaacaaga aaagtcaaac tggagtgaac ccatgcaaat	420
gcagcgtgtg tgggaaagtc ttctccgctc attcattcct ggacaggcac atgagagctc	480
atgctggaca caaacgatct gagtgtggtg gggaatggag agagacgccc cgtaaacaga	540
aacaacatgg gaaagcctcc atttccccc gtagtgggtg acggcgacac gtaacaccaa	600
ctcgaaagag accttatgaa tgcaagggtg gcgggaaagc ctttaattct cccaatttat	660
ttcaaattca tcaaagaact cacactggaa agaggctcta taaatgtagg gaaatagtga	720
gagccttcac agtttccagt ttctttcgaa aacatggaaa aatgcatact ggagaaaaac	780
gctatgaatg taaatactgt ggaaaaccta tcgattatcc cagtttattt caaattcatg	840
ttagaactca cactggagaa aaaccttaca aatgtaaaca atgtggtaaa gccttcattt	900
ccgcaggtta ccttcggaca catgaaatca gatctcacgc gctggagaaa tcccaccaat	960
gtcaggaatg tgggaaaaaa ctgagttggt ccagttccct tcacagacat gaaagaactc	1020
atagtggagg aaaactctac gaatgtcaaa aatgtgccaa agtctttaga tgtccacgt	1080
cccttcaagc acatgaaaga gctcacactg gagaaagacc ttatgaatgt aataaatgtg	1140
gtaaaacctt caattatccc agttgttttc gaagacataa aaaaactcat agtggagaaa	1200
agccatatga atgtacaagg tgtggtaaag cctttgggtg gtgcagttcc ctccgaagac	1260
atgaaatgac tcacactgga gaaaaacctt ttgattgtaa acagtgtggt aaagtcttta	1320
ctttttcaaa ttaccttaga cttcatgaaa gaactcattt ggccggggcg agccagtgc	1380
ttggcaggag gcagggggat cacctgagcc caggagtttg agaccagcct gggcaacata	1440
agaaggcccc cggaattc	1458

<210> 599
 <211> 3176
 <212> DNA
 <213> Homo sapiens

<400> 599	
accagggac ctatcacaca aatataagaa ctattcattc tttaaggcat gtatttccaa	60
gcctttgtat ttttttccat gcttaggggt ggcaaggaat atatatatat ttgtacaaat	120
atatatgtgt atatgtacaa atacatgtat atatagtaca aatatatata tatatttgta	180

caattcttca gactttgtag aatttgtata atgtcgtatc ttgctttttt taaccactga	240
tgttataagc atatttatgc cacttcattc attttagaga cttaataata aatgatctag	300
tggataatth atcattccct gatggagaaa aatttagctt tgtttatttt agagttataa	360
acgatgctgg gtcaggatc tttatgtttg aagatggctc catatttggg ttgtttccac	420
agaactcttt cctagaaatg ctttttctag gttaatggct acagatattt ctaggcacct	480
gacatattga caccacctc taaagtattt ttatgatcca caactagcgt ttaacacagc	540
gccctagtca ctacatgact aataaataga caaatgactg aaacatgacc tcatgctttc	600
tattcctcca gctttcattc agttctttgc ctctgggagg aggaagggtt gtgcagccct	660
ccacagcatc agcccatcaa ccctatccct gtgggttatag cagctgagga agcagaattg	720
cagctctgtg ggaaggaatg gggctggaga gttcatgcac agaccagttc ttatgagaag	780
ggactgacta agaatagcct tgggttgaca tataccctc ttcacactca caggagaaac	840
catttcccta tgaaactata acaagtcatg agttgagagc tgagagttag agaatagctc	900
aaagatgcta ttcttgata tcctgagccc ctgtggtcac cagggacctt gagttgtgca	960
acttagcatg acagcatcac tacgcttaaa aatttccctc ctcaccccca gattccattt	1020
cccatccgc cagggtgcc tataaagagg agagctggtt tcagacttca gaaggacacg	1080
ggcagcagac agtggtcagt ctttcttgg ctctgctgac actcgagccc acattccgtc	1140
acctgctcag aatcatgcag gtctccactg ctgcccttgc tgtcctctc tgcaccatgg	1200
ctctctgcaa ccagttctct gcatacgtg agtctgagtt tcgttgtggg tatcaccact	1260
ctctggccat ggttagacca catcaatctt ttcttgtggc ctaaaagccc ccaagagaaa	1320
agagaacttc ttaaagggtt gccaaacatc ttggtctttc tctttaagac ttttattttt	1380
atctctagaa ggggtcttag cccctagtc tccaggtatg agaattctagg caggggcagg	1440
ggagttacag tcccttttac agatagaaaa acagggttcg aaacgaatca gtttagcaaga	1500
ggcagaatcc agggctgctt acttcccagt ggggtatggt gttcactctc cagctcactc	1560
taggtctccc aggagctctg tcccttggat gtcttatgag agatgtccaa ggcttctctt	1620
gggttggggt atgacttctt gaaccagaca aaattccctg aagagaactg agataagaga	1680
acagtccgtt caggtatctg gatcacacag agaaacagag aaccactat gaagagtcaa	1740
ggagaaagaa ggatacagac agaaacaaag agacatttct cagcaaaaat gcccaaatgc	1800
cttccagtca cttggtctga gcaagcctgc ctctctcaac tgctcgggga tcagaagctg	1860
cctggccttt tcttctgagc tgtgactcg gctcattctc ttcctttctc cacagttgct	1920
gctgacacgc cgaccgctg ctgcttcagc tacacctccc ggcagattcc acagaatttc	1980

atagctgact acttttgagac gagcagccag tgctccaagc ccggtgtcat gtaagtgcc 2040
 gtcttcctgc tcacctctat ggaggtaggg agggtcaggg ttggggcaga gacaggccag 2100
 aaggctatcc tggaaaggcc cagccttcag gagcctatcg gggatacagg acgcagggct 2160
 ccgaggtgtg acctgacttg gagctggagt gaggcattgt ttacagagtc aggaagggct 2220
 gccccagccc agaggaaagg gacaggaaga aggaggcagc gggacactct gagggccacc 2280
 cctactgagt cactgagaga agctctctag acagagatag gcagggggcc cctgaaagag 2340
 gagcaagccc tgagctgccc aggacagaga gcagaatggg ggggccatgg tggggccagg 2400
 attcccctgc tggattcccc agtgcttaac tcttcctccc ttctccacag cttcctaacc 2460
 aagcgaagcc ggcaggtctg tgctgacccc agtgaggagt gggccagaa atatgtcagc 2520
 gacctggagc tgagtgcctg aggggtccag aagcttcgag gccagcgcac ctcggtgggc 2580
 ccagtgggga ggagcaggag cctgagcctt gggaacatgc gtgtgacctc cacagctacc 2640
 tcttctatgg actggttggt gccaaacagc cacactgtgg gactcttctt aacttaaatt 2700
 ttaatttatt tatactattt agtttttgta atttattttc gatttcacag tgtgtttgtg 2760
 attgtttgct ctgagagttc ccctgtcccc tcccccttc ctcacaccgc gtctggtgac 2820
 aaccgagtgg ctgtcatcag cctgtgtagg cagtcattgg accaaagcca ccagactgac 2880
 aaatgtgtat cggatgcttt tggtcagggc tgtgatcggc ctggggaaat aataaagatg 2940
 ctcttttaaa aggtaaacca gtattgagtt tggttttggt tttctggcaa atcaaaatca 3000
 ctggttaaga ggaatcatag gcaaagatta ggaagaggtg aaatggaggg aaattgggag 3060
 agatggggag ggctaccaca gagttatcca ctttacaacg gagacacagt tctggaacat 3120
 tgaaactacg aatatgttat aactcaaata ataacatgca tgctctagga gaattc 3176

<210> 600
 <211> 130
 <212> DNA
 <213> Homo sapiens

<400> 600
 gtaactagaa atggcagggt aaggagtgtt tgcttgacat cgtctcgttt ttacggaaga 60
 gggccctca cgatgtgccc atcagcccca cctgaaatag caagaaatct tcttcagcag 120
 agagcgaata 130

<210> 601
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 601
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60

```

tttttttttt tttttttttt ggggcccccg gcttttttta taaaaaccag ggggaagggtt    120
tggggccaaac cccccaggct ttgggttttc ccccccccc cggggaaagg gggccccccc    180
cccccccaca aaaaaaccca                                         200

```

<210> 602
 <211> 921
 <212> DNA
 <213> Homo sapiens

```

<400> 602
gcggcgctcg cgccaaggga cgtgtttctg cgctcgctg gtcattggagg cgctgcgct    60
gctagccgcg acaactccgg accacggccg ccaccgaagg ctgcttctgc tgccgctact    120
gctgttctct ctgccggctg gagctgtgca gggctgggag acagaggaga ggccccggac    180
tcgcaagag gagtgccact tctacgctgg tggacaagtg taccgggag aggcattccg    240
ggatcggtc gccgaccact ccctgcacct aagcaaagcg aagatttcca agccagcgcc    300
ctactgggaa ggaacagctg tgatcgatgg agaatttaag gagctgaagt taactgatta    360
tcgtgggaaa tacttggttt tcttcttcta ccacttgat ttcacatttg tgtgtccaac    420
tgaaattatc gcttttggcg acagacttga agaattcaga tctataaata ctgaagtggg    480
agcatgctct gttgattcac agtttaccga tttggcctgg attaataccc ctggaagaca    540
aggaggactt gggccaataa ggattccact tctttcagat ttgacctatc agatctcaaa    600
ggactatggg gtatacctag aggactcagg ccacactctt agaggctctt tcattattga    660
tgacaaagga atcctaagac aaattactct gaatgatctt cctgtgggta gatcagtggg    720
tgagacacta cgtttggttc aagcattcca gtacactgac aaacacggag aagtctgccc    780
tgctggctgg aaacctggta gtgaaacaat aatcccagat ccagctggaa agctgaagta    840
tttcgataaa ctgaattgag aaatacttct tcaagttatg atgcttgaaa gttctcaata    900
aagttcacgg tttcattacc a                                         921

```

<210> 603
 <211> 2591
 <212> DNA
 <213> Homo sapiens

```

<400> 603
ctcagactgt ctttctcttc tggactgtaa gaatatgtct ccagggccag tgtctgctgc    60
gatcgagtcc caccttccaa gtccctggcat ctcaatgcat ctgggaagct acctgcatta    120
agtcaggact gagcacacag gtgaactcca gaaagaagaa gctatggccg cagtgattct    180
ggagagcatc tttctgaagc gatcccaaca gaaaaagaaa acatcacctc taaacttcaa    240

```


gaagcgcctg tttctcttga ccgtgcacaa actctcctac tatgagtatg actttgaacg	300
tgggagaaga ggcagtaaga agggttcaat agatgttgag aagatcactt gtgttgaaac	360
agtggttcct gaaaaaaatc ctctccaga aagacagatt ccgagaagag gtgaagagtc	420
cagtgaatg gagcaaattt caatcattga aaggttccct tatcccttcc aggttgata	480
tgatgaaggg cctctctacg tcttctcccc aactgaagaa ctaaggaagc ggtggattca	540
ccagctcaaa aacgtaatcc ggtacaacag tgatctgggt cagaaatata acccttgctt	600
ctggatcgat gggcagtata tctgctgctc tcagacagcc aaaaatgcta tgggctgcca	660
aattttggag aacaggaatg gaagcttaaa acctgggagt tctcaccgga agacaaaaaa	720
gcctcttccc ccaacgcctg aggaggacca gatcttgaaa aagccactac cgcctgagcc	780
agcagcagca ccagtctcca caagtgaagt gaaaaagggt gtggcccttt atgattacat	840
gccaatgaat gcaaataatc tacagctgag gaagggtgat gaatatatta tcttgaggga	900
aagcaactta ccatggtgga gagcacgaga taaaaatggg caggaaggct acattcctag	960
taactatgtc actgaagcag aagactccat agaaatgtat gagtgggtatt ccaaacacat	1020
gactcggagt caggctgagc aactgctaaa gcaagagggg aaagaaggag gtttcattgt	1080
cagagactcc agcaaagctg gcaaataatac agtgtctgtg ttgctaaat ccacagggga	1140
ccctcaaggg gtgatacgtc attatgttgt gtgttcaca cctcagagcc agtattacct	1200
ggctgagaag caccttttca gcaccatccc tgagctcatt aactaccatc agcacaactc	1260
tgcaggactc atatccaggc tcaaataatc agtgtctcaa caaaacaaga atgcaccttc	1320
cactgcaggc ctgggatacg gatcatggga aattgatcca aaggacctga cttcttgaa	1380
ggagctgggg actggacaat ttggggtagt gaagtatggg aaatggagag gccagtacga	1440
cgtggccatc aagatgatca aagaaggctc catgtctgaa gatgaattca ttgaagaagc	1500
caaagtcatg atgaatcttt cccatgagaa gctgggtgag ttgtatggcg tctgcaccaa	1560
gcagcgcctc atcttcatca tcaactgagta catggccaat ggctgcctcc tgaactacct	1620
gagggagatg cgccaccgct tccagactca gcagctgcta gagatgtgca aggatgtctg	1680
tgaagccatg gaatacctgg agtcaaagca gttccttcac cgagacctgg cagctcgaaa	1740
ctgtttggta aacgatcaag gagttgttaa agtatctgat ttcggcctgt ccaggtatgt	1800
cctggatgat gaatacacia gctcagtagg ctccaaattt ccagtccggt ggtccccacc	1860
ggaagtctg atgtatagca agttcagcag caaatctgac atttgggctt ttgggggtttt	1920
gatgtgggaa atttactccc tggggaagat gccatatgag agatttacta acagtgagac	1980
tgctgaacac attgccaag gcctacgtct ctacaggcct catctggctt cagagaaggt	2040
atataccatc atgtacagtt gttggcatga gaaagcagat gagcgtccca ctttcaaaat	2100

```

tcttctgagc aatattctag atgtcatgga tgaagaatcc tgagctcgcc aataagcttc 2160
ttggttctac ttctcttctc cacaagcccc aatttcactt tctcagagga aatcccaagc 2220
ttaggagccc tggagccttt gtgctccccc tcaatacaaaa aaggccccctc tctacatctg 2280
gggatgcacc tcttcttttga ttccctggga tagtggtctt tgagcaaagg ccaaaaaatt 2340
attgtgcctg aaatttcccg agagaattaa gacagactga atttgcatg aaaatatatt 2400
ttaggagggga ggatgtaaat agccgcacaa aggggtccaa cagctctttg agtaggcatt 2460
tggtagagct tgggggtgtg tgtgtggggg tggaccgaat ttggcaagaa tgaaatgggtg 2520
tcataaagat gggagggggag ggtgttttga taaaataaat tctagaaagc ttaaaaaaaaa 2580
aaaaaaaaaa a 2591

```

```

<210> 604
<211> 594
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (520)..(520)
<223> n is a, c, g, t or u

```

```

<400> 604
tttttttttt tttttgtact tttgttcata gatcggcact tgactttgaa cctggcacca 60
aaaggcacaa tatctgatac cctgtacaag agctattaga gatgctgcca tatggatggg 120
caaaactgag ccaatccccc ttaggaatgg aaggcttggga catggaaggg aggatataaa 180
cgaggagttg gagaaaaacg caagcccagt ttttgcctaga gtggaaatga aagtgggaat 240
gaggggtcttg tttttagtcc tctaaggacc aggaagcaat tttaaaactt ccttggtttt 300
tctgaaagca gcatattcaa aatgccagca aaaactccta acaactgcaa aacaaaaaga 360
ggatcaaagc tcaccaacat cccttcttat tgctgaaagg ctctaaaatt caggatgccc 420
tgttcccttg taaaagggaa aataattaag tctgatttat ggtaatcata ccacatcaca 480
cttctaaaaa aatattcaag tgtgtgacca ggggacgttn gacaccattt tattaacctt 540
caacttcagt ggaaaaataa aaccttttcc aagtgccatt ttcatcacia gact 594

```

```

<210> 605
<211> 2338
<212> DNA
<213> Homo sapiens

```

```

<400> 605
agcgcacgtc ggcagtcggc tccctcgttg accgaatcac cgacctctct cccagctgt 60

```

atttccaaaa	tgctgctttc	taacaagctg	acgctggaca	agctggacgt	taaagggaag	120
cgggtcggtta	tgagagtcga	cttcaatggt	cctatgaaga	acaaccagat	aacaaacaac	180
cagaggatta	aggctgctgt	ccaagcatc	aaattctgct	tggacaatgg	agccaagtcg	240
gtagtcctta	tgagccacct	aggccggcct	gatggtgtgc	ccatgcctga	caagtactcc	300
ttagagccag	ttgctgtaga	actcaaactc	ctgctgggca	aggatgttct	gttcttgaag	360
gactgtgtag	gcccagaagt	ggagaaagcc	tgtgcccaacc	cagctgctgg	gtctgtcatc	420
ctgctggaga	acctccgctt	tcatgtggag	gaagaaggga	agggaaaaga	tgcttctggg	480
aacaagggtta	aagccgagcc	agccaaaata	gaagctttcc	gagcttcact	ttccaagcta	540
ggggatgtct	atgtcaatga	tgcttttggc	actgctcaca	gagcccacag	ctccatggta	600
ggagtcaatc	tgccacagaa	ggctgggtggg	tttttgatga	agaaggagct	gaactacttt	660
gcaaaggcct	tggagagccc	agagcgaccc	ttcctggcca	tcctgggcgg	agctaaagtt	720
gcagacaaga	tccagctcat	caataatatg	ctggacaaag	tcaatgagat	gattattgggt	780
gggtggaatgg	cttttacctt	ccttaagggtg	ctcaacaaca	tggagattgg	cacttctctg	840
tttgatgaag	agggagccaa	gattgtcaaa	gacctaatgt	ccaaagctga	gaagaatgggt	900
gtgaagatta	ccttgccctgt	tgactttgtc	actgctgaca	agtttgatga	gaatgccaaag	960
actggccaag	ccactgtggc	ttctggcata	cctgctggct	ggatgggcctt	ggactgtgggt	1020
cctgaaagca	gcaagaagta	tgctgaggct	gtcactcggg	ctaagcagat	tgtgtggaat	1080
ggtcctgtgg	gggtatttga	atgggaagct	tttgcccggg	gaaccaaagc	tctcatggat	1140
gaggtgggtga	aagccacttc	taggggctgc	atcaccatca	taggtgggtgg	agacactgcc	1200
acttgctgtg	ccaaatggaa	cacggaggat	aaagtcagcc	atgtgagcac	tgggggtgggt	1260
gccagtttgg	agctcctgga	aggtaaagtc	cttcctgggg	tggatgctct	cagcaatatt	1320
tagtactttc	ctgcctttta	gttcctgtgc	acagccccta	agtcaactta	gcattttctg	1380
catctccact	tggcattagc	taaaaccttc	catgtcaaga	ttcagctagt	ggccaagaga	1440
tgcagtgcc	ggaaccctta	aacagttgca	cagcatctca	gctcatcttc	actgcaccct	1500
ggatttgc	acattcttca	agatcccatt	tgaatttttt	agtgactaaa	ccattgtgca	1560
ttctagagt	catatattta	tattttgcct	gttaaaaaga	aagtgagcag	tgtagctta	1620
gttctctttt	gatgtagggt	attatgatta	gctttgtcac	tgtttcacta	ctcagcatgg	1680
aaacaagatg	aaattccatt	tgtaggtagt	gagacaaaat	tgatgatcca	ttaagtaa	1740
aataaaagtg	tccattgaaa	ccgtgatttt	tttttttttc	ctgtcatact	ttgttaggaa	1800
gggtgagaat	agaatcttga	ggaacggatc	agatgtctat	attgctgaat	gcaagaagtg	1860
gggcagcagc	agtggagaga	tgggacaatt	agataaatgt	ccattcttta	tcaagggcct	1920

actttatggc agacattgtg ctagtgcttt tattctaact tttattttta tcagttacac 1980
 atgatcataa tttaaaaagt caaggcttat aacaaaaaag cccagccca ttcctcccat 2040
 tcaagattcc cactccccag aggtgaccac tttcaactct tgagtttttc aggtatatac 2100
 ctccatgttt ctaagtaata tgcttatatt gttcacttcc ttttttttta ttttttaaag 2160
 aaatctatth cataccatgg aggaaggctc tgttccacat atatttccac ttcttcatte 2220
 tctcggata gttttgtcac aattatagat tagatcaaaa gtctacataa ctaatacagc 2280
 tgagctatgt agtatgctat gattaaattt acttatgtaa aaaaaaaaaa aaaaaaaaaa 2338

<210> 606
 <211> 1723
 <212> DNA
 <213> Homo sapiens

<400> 606
 actccgaatg cgaagttctg tcttgtcata gccaaagcacg ctgcttcttg gattgacctg 60
 gcaggatggc gccaccacca gctagagtac atctaggtgc gttcctggca gtgactccga 120
 atcccgggag cgcagcgagt gggacagagg cagccgcggc cacaccacagc aaagtgtggg 180
 gctcttccgc ggggaggatt gaaccacgag gcggggggccg aggagcgctc cctacctcca 240
 tgggacagca cggaccagat gcccgggccc gggcagggcg cggccagga cccaggccgg 300
 cgcgggaagc cagccctcgg ctccgggtcc acaagacctt caagtttgtc gtcgtcgggg 360
 tcctgctgca ggtcgtacct agctcagctg caaccatcaa acttcatgat caatcaattg 420
 gcacacagca atgggaacat agccctttgg gagagttgtg tccaccagga tctcatagat 480
 cagaacatcc tggagcctgt aaccggtgca cagaggggtgt gggttacacc aatgcttcca 540
 acaatttgtt tgcttgcctc ccatgtacag cttgtaaatc agatgaagaa gagagaagtc 600
 cctgcaccac gaccaggaac acagcatgtc agtgcaaacc aggaactttc cggaatgaca 660
 attctgctga gatgtgccgg aagtgcagca gaggggtgcc cagagggatg gtcaagggtca 720
 aggattgtac gccctggagt gacatcgagt gtgtccacaa agaatacaggc aatggacata 780
 atatatgggt gatthttggt gtgacttttg ttgttccgtt gctgttggtg gctgtgctga 840
 ttgtctgttg ttgcatcggc tcaggttgtg gaggggaccc caagtgcagc gacaggggtg 900
 gtttctggcg cttgggtctc ctacgagggc ctgggggtga ggacaatgct cacaacgaga 960
 ttctgagcaa cgcagactcg ctgtccactt tcgtctctga gcagcaaag gaaagccagg 1020
 agccggcaga tttgacaggt gtcactgtac agtccccagg ggaggcacag tgtctgctgg 1080
 gaccggcaga agctgaaggg tctcagagga ggaggctgct ggttccagca aatgggtgctg 1140
 accccactga gactctgatg ctgttctttg acaagtttgc aaacatcgtg ccctttgact 1200

cctgggacca gctcatgagg cagctggacc tcacgaaaaa tgagatcgat gtggtcagag	1260
ctggtacagc agggccaggg gatgccttgt atgcaatgct gatgaaatgg gtcaacaaaa	1320
ctggacggaa cgcctcgatc cacaccctgc tggatgcctt ggagaggatg gaagagagac	1380
atgcaaaaga gaagattcag gacctcttgg tggactctgg aaagtccatc tacttagaag	1440
atggcacagg ctctgccgtg tccttggagt gaaagactct tttaccaga ggtttctct	1500
taggtgttag gagttaatac atattaggtt tttttttttt ttaacatgta .tacaaagtaa	1560
attcttagcc aggtgtagtg gctcatgcct gtaatcccag cactttggga ggctgaggcg	1620
ggtggatcac ttgaggtcag aagttcaaga ccagcctgac caacatcgtg aaatgccgtc	1680
tttacaaaaa aatacaaaaa ttaactggaa aaaaaaaaaa aaa	1723

<210> 607

<211> 1449

<212> DNA

<213> Homo sapiens

<400> 607

ctggatagaa cagctcaagc cttgccactt cgggcttctc actgcagctg ggcttggact	60
tcggagtttt gccattgcca gtgggacgtc tgagactttc tccttcaagt acttggcaga	120
tcactctctt agcagggctc gcgcttcgca gccgggatga agctggtttc cgtcgccctg	180
atgtacctgg gttcgctcgc .cttcctaggc gctgacaccg ctcggttga tgtcgcgtcg	240
gagtttcgaa agaagtggaa taagtgggct ctgagtcgtg ggaagaggga actgaggatg	300
tccagcagct accccaccgg gctcgtgac gtgaaggccg ggcctgcca gacccttatt	360
cggccccagg acatgaaggg tgcctctcga agccccgaag acagcagtcc ggatgccgcc	420
cgcacccgag tcaagcgcta ccgccagagc atgaacaact tccagggcct ccggagcttt	480
ggctgccgct tcgggacgtg cacggtgcag aagctggcac accagatcta ccagttcaca	540
gataaggaca aggacaacgt cgccccagg agcaagatca gccccaggg ctacggccgc	600
cggcgccggc gtcacctgcc cgaggccggc ccgggtcgga ctctggtgtc ttctaagcca	660
caagcacacg gggctccagc cccccgagt ggaagtgtc cccactttct ttaggattta	720
ggcgcccatg gtacaaggaa tagtcgcgca agcatcccgc tggtgccctc cgggacgaag	780
gacttcccga gcggtgtggg gaccgggctc tgacagccct gcggagacct tgagtccggg	840
aggcaccgtc cggcgccgag ctctggcttt gcaagggccc ctcttcttgg gggcttcgct	900
tccttagcct tgctcaggtg caagtgtccc agggggcggg gtgcagaaga atccgagtgt	960
ttgccaggct taaggagagg agaaactgag aaatgaatgc tgagaccccc ggagcagggg	1020
tctgagccac agccgtgctc gccacaaaac tgattttctca cggcgtgtca ccccaccagg	1080

```

gcgcaagcct cactattact tgaactttcc aaaacctaaa gaggaaaagt gcaatgcgtg 1140
ttgtacatac agaggtaact atcaatatTT aagtttgttg ctgtcaagat tttttttgta 1200
acttcaaata tagagatatt tttgtacgtt atatattgta ttaagggcat tttaaaagca 1260
attatatattg cctccccctat ttttaagacgt gaatgtctca gcgaggtgta aagttgttcg 1320
ccgcgtggaa tgtgagtggtg tttgtgtgca tgaaagagaa agactgatta cctcctgtgt 1380
ggaagaagga aacaccgagt ctctgtataa tctatttaca taaaatgggt gatatgcgaa 1440
cagcaaacc 1449

```

```

<210> 608
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (11)..(39)
<223> n is a, c, g, t or u

```

```

<220>
<221> misc_feature
<222> (380)..(475)
<223> n is a, c, g, t or u

```

```

<400> 608
agggtacaagc nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnna gatcaaataa agactaatga 60
tattgatttg gatacgggtga ataagctgga caagatgttg aggagagggg gtaaaacaag 120
tttacattaa atatactaac aataacgatt gggtacagat ttgtaagtga tggatgatgga 180
taaaaactga ataagaatac aaacctaataa tataatgaaa atgaaaaaaa tatcttttat 240
ctttttttaat aaagaagggg gacgggggtct tggattagta taaatataac aataatggaa 300
aagttgaata tgttaaggaa taagaattaa tctcatttaa agcctcaaaa caaccatgaa 360
aaggattaga aacattttan nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnngattt 480
aaaaaaaaa aaaataga 498

```

```

<210> 609
<211> 3216
<212> DNA
<213> Homo sapiens

```

```

<400> 609
gcggacgggtg agtgggggatg gactggagtt gaagagctcg agatgaaggg cttgagggcg 60
tgtgttattt gttttcttca agcatttgggt cgagattaag aattaaaaat gtcacccaaa 120

```

caagaaataa tgagtgacca gcggtttaga cgggttgcaa aggacccgag attttgggaa	180
atgccagaaa aggatcgaaa agtcaaaatt gacaagagat ttcgagccat gtttcatgac	240
aagaagttca agttgaacta tgccgtggat aaaagagggc gccccattag ccatagcact	300
acagaggatt tgaagcgttt ttacgacctt tcagattctg attccaatct ctctgggtgaa	360
gatagcaaag catttgagtca aaagaaaata aagaagaaaa aaaccagac taaaaagaa	420
atcgattcaa aaaatctagt tgagaaaaag aaagaaacca agaaggctaa tcacaagggc	480
tctgaaaata aaactgattt agataattct ataggaatta aaaaaatgaa aacctcatgt	540
aaattttaaga tagattcaaa cataagtccg aagaaggata gcaaagaatt tacacaaaaa	600
aataagaaag agaaaaaaaa cattgttcaa catactacag actcttctct cgaagaaaaa	660
caaaggacat tagactcagg cacctctgaa attgtgaaat ctcccagaat cgagtgttct	720
aagacaagaa gagaaatgca atcagtgggt caactcataa tgacaagaga cagtgatggc	780
tatgaaaact caacagatgg tgaaatgtgt gacaaagatg ctctggagga agattcagaa	840
agcgtagtg aaataggaag tgatgaggaa tctgaaaatg aaattacaag tggtggtaga	900
gcttcagggtg atgacgatgg aagtgaagat gatgaagagg aggatgaaga tgaagaggag	960
gatgaagatg aggatagtga ggatgatgat aaaagtgaca gtggccctga tcttgcaagg	1020
ggtaaaggaa atatagaaac tagttctgaa gatgaagatg atacggcaga tttgtttcca	1080
gaagaatctg gttttgagca tgcttgagga gaattagata aagatgctcc tcgtgctgat	1140
gagattacac gtcgattagc agtttgaac atggactggg atagattaaa ggcaaaagat	1200
ttgctggctc tggtcaattc atttaaacc aaaggagggtg taatattttc cgtcaagata	1260
tatccttcag aatttggaag ggagaggatg aaggaagagc aagttcaagg accagtagag	1320
ctattaagta ttctgaaga tgccccagaa aaagactgga cgtctagaga aaaattgaga	1380
gattatcaat tcaaacgact gaagtactat tatgcagtag tagactgtga ttctccggaa	1440
acagctagta aaatttatga ggattgtgat ggcctggaat ttgaaagtag ttgttcttc	1500
atagatctaa ggtttatacc agatgatatt acttttgatg atgagcctaa ggatgtagcc	1560
tcagaagtga atttaacagc atataaacca aaatatttca cttctgctgc aatgggaaca	1620
tcaacgggtg aaatcacttg ggatgagact gatcatgaaa gaattacaat gctcaacagg	1680
aagtttaaaa aggaagagct tttggacatg gattttcaag cctacttagc ttcctctagt	1740
gaagatgaag aggagataga agaggagcta caaggatgat atggagtcaa tgtagaagaa	1800
gatgggaaaa caaagaaaag tcagaaggat gatgaagaac aaattgctaa atacaggcag	1860
ctcttcgagg ttattcaaga aaaagaaaag aaaggcaaag aaaatgatat ggaaatggaa	1920

attaaatggg ttccaggtct taaagaaagt gcagaagaga tggcaaaaa caaattggaa	1980
ggaaaggata aactgacccc ttgggaacaa tttttagaga agaagaaaga gaaaaaaga	2040
ctgaaaagga aacagaaggc tcttgctgaa gaggccagtg aagaggaact tccctctgat	2100
gttgatttga atgaccata ctttgctgaa gaagttaaac aaataggtat aaataaaaaa	2160
tcggtaaaat ctgcaaaaga tggcacatct ccagaagaag aaattgaaat agaaagacaa	2220
aaggctgaaa tggctttgct tatgatggat gaggacgagg acagtaagaa acacttcaat	2280
tacaacaaga ttgtggagca ccagaatctg agcaaaaaa agaaaaagca gctcatgaaa	2340
aagaaggaat taatagagga tgactttgag gtaaattgta acgatgcacg gtttcaggca	2400
atgtacactt cccacttggt caatttggac ccctcagatc ccaatttcaa gaaaacaaaa	2460
gctatggaaa aaatccttga ggagaaggcc cggcaaagag aacggaaaga acaagaactt	2520
actcaggcaa taaagaaaaa agagagtgag attgaaaagg aatcacaaag gaagtccatt	2580
gatcctgctt tgtcaatgtt gattaaatct ataaaaacca aaacagagca gtttcaagca	2640
agaaaaaagc aaaaagtcaa ataactggat gttacttatt tttgaactga atacatcttt	2700
tcctaaaatg taaaaaata ataggaggga atattttattg ggaacaaagc tatctttcaa	2760
gaacatgaat aaaatctttt tctggacata gtaaaatttt tctccataaa taattgtact	2820
taattgtgga tgactgacaa atttttattg tatattccta cagatcagtc ataattaaat	2880
tacctgcatt atagggttta taaaattttt atattttaca atgttcagtt ctaactagt	2940
gaaagttact ctagcttttt aaaaggctgt ttacaattct gtgtaaaaat agagcagtat	3000
ctactcaagt ttgtgtaa atgtagggata atttgaaaaa tatatatatt taatacat	3060
atttctctgg aagcaggagg catgttttaa taactattaa aataatttat ttttctagcc	3120
ataaaggatg gaagtcaaga actttttggt gtttagtcat gttaagtata gtttatgaaa	3180
ttaacttgta aataaaagt taaaatattt tcatta	3216

<210> 610
 <211> 2155
 <212> DNA
 <213> Homo sapiens

<400> 610	
tgggggcggt cgccctcggtt gcctcgcgcc ctccactgga gctgttcgcg cctcccggt	60
cccaccgcag cccaccggc agaggagtcg ctaccagcgc ccagtgcgct ctgtcagtc	120
gcaaactcct tgcgccccgc cccgggctgg gcgcaaata ccaggctacc atggtctaca	180
agactctctt cgctctttgc atcttaactg caggatggag ggtacagagt ctgcctacat	240
cagctccttt gtctgtttct cttccgacaa acattgtacc accgactacc atctggacta	300

gctctccaca	aaacactgat	gcagacactg	cctccccatc	caacggcact	cacaacaact	360
cggtgctccc	agttacagca	tcagcccca	catctctgct	tcctaagaac	atttccatag	420
agtccagaga	agaggagatc	accagcccag	gttcgaattg	ggaaggcaca	aacacagacc	480
cctcaccttc	tgggttctcg	tcaacaagcg	gtggagtcca	cttaacaacc	acgttggagg	540
aacacagctt	gggcactcct	gaagcaggcg	tggcagctac	actgtcgcag	tccgctgctg	600
agcctccac	actcatctcc	cctcaagctc	cagcctcatc	accctcatcc	ctatcaacct	660
caccacctga	ggtcttttct	gcctccgtta	ctaccaacca	tagctccact	gtgaccagca	720
cccaaccac	tggagctcca	actgcaccag	agtccccaac	agaggagtcc	agctctgacc	780
acacaccac	ttcacatgcc	acagctgagc	cagtgcacca	ggagaaaaca	cccccaaca	840
ctgtgtcagg	caaagtgatg	tgtgagctca	tagacatgga	gacaccacca	cctttccag	900
ggtgatcatg	caggaagtag	aacatgcatt	aagttcaggc	agcatcgccg	ccattaccgt	960
gacagtcatt	gccgtggtgc	tgctggtggt	tggagttgca	gcctacctaa	aatcaggca	1020
ttcctcctat	ggaagacttt	tggacgacca	tgactacggg	tcctggggaa	actacaaca	1080
ccctctgtac	gatgactcct	aacaatggaa	tatggcctgg	gatgaggatt	aactgttctt	1140
tatttataag	tgcttatcca	gtagaattaa	taagtacctg	atgcgcattg	aacgacaatc	1200
ttaagccctg	ttttgttgg	atggttggtt	ttgttttctc	ccctctcctc	tggtgctac	1260
aacttcccct	ttctggtaca	agaagaacca	ttcttttaaag	gtgagtggag	gctgatttgc	1320
agctgaagtg	ggccagcctt	gcaccagcca	ggccagacca	ccatggtgaa	ggcttctttc	1380
cccactgcag	gaccactttt	gagaaggacc	gaggaggagg	atgtgggttg	ttttgttagg	1440
ggttactttc	aggggaacat	ttcatttgtg	ttatttctta	aacttctatt	taggaaatta	1500
cattaagtat	taatgagggg	aaaggaaatg	agctctacga	ggatttcacc	ctgcatggga	1560
gagagcaggg	ttttctcaga	ttccttttta	atctctatct	atctgggttg	ttctgacagg	1620
atgctgcctg	cttggtctta	caagctggaa	agcagcttct	tagctgccta	attaatgaaa	1680
gatgaaaata	ggaagtgcc	tggagggggc	cagcaggtca	cggggcagaa	tctctcaggt	1740
tgctgtggga	tctcagtgtg	cccctacctg	ttctccctc	caggccacct	gtctctgtaa	1800
aggatgtctg	ctctgttcaa	aaggcagctg	ggatcccagc	ccacaagtga	tcagcagagt	1860
tgcattttcca	aagaaaaagg	ctatgagatg	agctgagtta	tagagagaaa	gggagaggca	1920
tgtacggtgt	ggggaagtgg	aagggaagct	ggcgggggag	aaggaggcta	acctgcactg	1980
agtacttcat	taggacaagt	gagaatcagc	tattgataat	ggccagagat	atccacagct	2040
tggaggagcc	cagagaccgt	ttgctttata	cccacacagc	aactgggtcca	ctgctttact	2100
gtctgttggga	taatggctgt	aaaatgttta	aaaacaaaaa	aaaaaaaaaa	aaaaa	2155

<210> 611
 <211> 2333
 <212> DNA
 <213> Homo sapiens

<400> 611
 ggcacgaggc tagagcgatg ccgggccgga gttgcgtcgc cttagtcctc ctggctgccg 60
 ccgtcagctg tgccgtcgcg cagcacgcgc cgccgtggac agaggactgc agaaaatcaa 120
 cctatcctcc ttcaggacca acgtacagag gtgcagttcc atggtacacc ataaatcttg 180
 acttaccacc ctacaaaaga tggcatgaat tgatgcttga caaggcacca atgctaaagg 240
 ttatagtga ttctctgaag aatatgataa atacattcgt gccaaagtga aaagttatgc 300
 aggtggtgga tgaaaaattg cctggcctac ttggcaactt tcctggccct tttgaagagg 360
 aaatgaaggg tattgccgct gttactgata tacctttagg agagattatt tcattcaata 420
 ttttttatga attatttacc atttgtactt caatagtagc agaagacaaa aaaggtcatc 480
 taatacatgg gagaaacatg gattttggag tatttcttgg gtggaacata aataatgata 540
 cctgggtcat aactgagcaa ctaaacctt taacagtga tttggatttc caaagaaaca 600
 acaaaaactgt cttcaaggct tcaagctttg ctggctatgt gggcatgtta acaggattca 660
 aaccaggact gttcagtctt aactgaatg aacgtttcag tataaatggg gggtatctgg 720
 gtattctaga atggattctg ggaaagaaag atgccatgtg gatagggttc ctactagaa 780
 cagttctgga aaatagcaca agttatgaag aagccaagaa tttattgacc aagaccaaga 840
 tattggcccc agcctacttt atcctgggag gcaaccagtc tggggaagggt tgtgtgatta 900
 cacgagacag aaaggaatca ttggatgtat atgaactcga tgctaagcag ggtagatggg 960
 atgtggtaca aacaaattat gaccgttgga aacatccctt cttccttgat gatcgagaa 1020
 cgctgcaaa gatgtgtctg aaccgcacca gccaaagaga tatctcattt gaaaccatgt 1080
 atgatgtcct gtcaacaaaa cctgtcctca acaagctgac cgtatacaca accttgatag 1140
 atgttaccaa aggtcaattc gaaacttacc tgcgggactg ccctgaccct tgtataggtt 1200
 ggtgagcaca cgtctggcct acagaatgcg gcctctgaga catgaagaca ccatctccat 1260
 gtgaccgaac actgcagctg tctgaecttc caaagactaa gactcgcggc aggttctctt 1320
 tgagtcaata gcttgtcttc gtccatctgt tgacaaatga cagatctttt ttttttccc 1380
 cctatcagtt gatttttctt atttacagat aacttcttta ggggaagtaa aacagtcac 1440
 tagaattcac tgagttttgt ttcactttga catttgggga tctggtgggc agtcgaacca 1500
 tgggtgaactc cacctccgtg gaataaatgg agattcagcg tgggtgttga atccagcacg 1560
 tctgtgtgag taacgggaca gtaaacactc cacattcttc agtttttcac ttctacctac 1620

atatttgtat gtttttctgt ataacagcct tttccttctg gttctaactg ctgttaaaat 1680
 taatatatca ttatctttgc tgttattgac agcgatatta ttttattaca tatcattaga 1740
 gggatgagac agacattcac ctgtatatct cttttaatgg gcacaaaatg ggcccttgcc 1800
 tctaaatagc actttttggg gttcaagaag taatcagtat gcaaagcaat cttttataca 1860
 ataattgaag tggtcccttt ttcataatta ctctacttcc cagtaaccct aaggaagttg 1920
 ctaacttaaa aaactgcac ccacgttctg ttaatttagt aaataaaca gtcaaagact 1980
 tgtggaaaat aggaagtga cccatatttt aaattctcat aagtagcatt gatgtaataa 2040
 acagggttttt agtttggtct tcagattgat agggagtttt aaagaaattt tagtagttac 2100
 taaaattatg ttactgtatt tttcagaaat caaactgctt atgaaaagta ctaatagaac 2160
 ttgttaacct ttctaacctt cacgattaac tgtgaaatgt acgtcatttg tgcaagaccg 2220
 tttgtccact tcattttgta taatcacagt tgtgttctg aactcaata aacagtcact 2280
 ggaaagagtg ccagtcagca gtcatgcacg ctgataaaaa aaaaaaaaaa aaa 2333

<210> 612
 <211> 2010
 <212> DNA
 <213> Homo sapiens

<400> 612
 attcattccc tgtcctcgga tcacagtctc ttctcactac agtgtcgccg cctctgcctg 60
 cgtagccccg gccatggctc tgtagcctcg acccctttgt gcccccgcc cgtctccgcg 120
 ctcaccacgc ctgcgctctc cgctcccacc ttctttcttc agccgaggcc gccgcccctt 180
 ctcttgtctg cagccatgga gtcttccact ttgccttgg tgctgtctt cgtccacctg 240
 agcatcctcc agagcctcgt gccagctgct ggtgcagcct ctctgtttgc catcagtgcc 300
 cagcacctgt gctacagcca tgtcactcct ggcgaccctg gggctggagc tggacagggc 360
 cctgtctcca gctagtgggc tgggatggct cgtagactat gggaaactcc ccccgcccc 420
 tgccccctg gctccctatg aggtccttgg gggagccctg gagggcgggc ttccagtggg 480
 gggagagccc ctggcaggtg atggcttctc tgactggatg actgagcgag ttgatttcac 540
 agctctctc cctctggagc ctcccctacc ccccgccacc ctcccccaac cttccccaac 600
 cccacctgac ctggaagcta tggcctccct cctcaagaag gagctggaac agatggaaga 660
 cttcttctta gatgccccgc cctcccacc accctccccg ccgccactac caccaccacc 720
 actaccacca gccccctccc tccccctgtc cctcccctcc tttgacctcc cccagcccc 780
 tgtcttgat actctggact tgctggccat ctactgccgc aacgaggccg ggcaggagga 840
 agtggggatg ccgctctgc ccccgccaca gcagccccct cctccttctc cacctcaacc 900

ttctcgctg gccccctacc cacatcctgc caccacccga ggggaccgca agcaaaagaa 960
 gagagaccag aacaagtcgg cggctctgag gtaccgccag cggaagcggg cagaggggtga 1020
 ggccctggag ggcgagtgcc aggggctgga ggcacggaat cgcgagctga aggaacgggc 1080
 agagtccgtg gagcgcgaga tccagtacgt caaggacctg ctcatcgagg tttaacaaggc 1140
 ccggagccag aggaccctga gctgctagaa gggcaggggt gtggcttctg ggggctggtc 1200
 ttcagctctg gcgccttcat cccctgcct ctaccttcat tccaaacccc tctcgcccg 1260
 gtgcagtggc ttatgcttgt aatcccagca ctttgggagg ccaaggcagg aggatcgttt 1320
 gaggccagga ggtcaatacc agcctgggca acatagtaag accctgtctc tattaaaaaa 1380
 aaaaaatcaa cccttcttcc ccaccaaacc acccaactcc tctctactct tatcctttta 1440
 tcctctgtct ctgcttatca cctctcttgc gtatttcttg atctccttcc ctcttttctc 1500
 gtccaaatca tgaaatgttt ggcccttagtc aatgtctatg cccgtcacat aacagccgag 1560
 gcaccgaggc ccacagggaa gcagctggga gcttggaaac ctggtctctt gaatttcaaa 1620
 cctggtttct tacaggtggt tgtctggggt ggggtggagtg gcgacaggat agagctgaag 1680
 gactatgcaa atgaggaagt aagtcagggc gggctttgag aaggggaccc atatcctaca 1740
 ggcaaaaagc aggctaggtg accttgggac actacgctaa gggagggagg cttaaaggcgg 1800
 ccaggtttgc agtgcgggaa gatgagcagg ccagtgggag gaggggcagg gcagggctgt 1860
 agttgggtgac tgggtgttca ttttagctct aagaaaaaaa atcagtgttt cgtgaagggtg 1920
 ttggagaggg gctgtgtctg ggtgagggat ggcgggggtac tgattttttt gggagggttat 1980
 gagcaaaaat aaaacgaaac atttcctctg 2010

<210> 613
 <211> 1263
 <212> DNA
 <213> Homo sapiens

<400> 613
 ggcacgaggt agagaagcag gggatagact cataggctgc aacaaagggtg actctgtccc 60
 tggacactgc ctccgtactt tctccttgtc tcaactggcca cagcatctcc ctccagccct 120
 cgctatgtgc ctctgccatc ttcacccatc atggagcaga ggtgaggaga ggcagcctgg 180
 gaatatggag accagtgaag gaccaggcct ggagagcaca gggtcctacc tgggcatcca 240
 gcagaggagc ccctaaaggc caggagcacc ccaagaggag ggagggcagc cagcctccat 300
 tgacggcgag cctccagccc tctcctactt tgatcaccat ttctctccag gctttctgcc 360
 tccgagatgt ggcaccatag tgcggtgccc tgtggcttca ccgccctact tccacctccg 420
 cccagcctgt aatgtttata taagcagcct caaggaccaa gaaccatctg cgaaaggaca 480

cacacaggaa attcataaaaa gaaatctgaa tggataaaac catgaaaaaa agtatgcttc 540
 attagtaatt aaagaaaggc aaatagagct ggaagcattt tccccttagc aaaccataac 600
 agaaaaaaat aagacccaat attggcaaag agactactga aaaaacattc ccatacattg 660
 cgtgtgggag tatacatcgg tgcaggcttc ctggatgaca gttgggtgat atgtgtcatg 720
 tggcctaaaa gcctccatgt catttgacct acgaattcta tctttgggaa tttatcctaa 780
 gaaaatactt aaggatttag ttagtgataa gatgttcatt ccagcattgc aatggagaaa 840
 aatgggaagc aatggtttgg ttgggaattt attccttttc tgctgtaacg aaagtttgca 900
 ataggggatt gcttaagtaa attattgtat ctccatccag atgggtggagt accgcgcaga 960
 cattaaaagt catgtaaaag aacatctgac tgaaagaaaa atgctccttg aatattaaaa 1020
 ggttgtaaaa atagtgcatt ttatgtgatt tcaattttgt tttttaaaa atgggtgtat 1080
 gcttgatata gtagagcaga taaaaagac ggaaggcata ctaaaaaatg ttgagtgggt 1140
 atctttgtat ggtggaacaa agtcactgta attttcatct ttggtttttc tgtaatttcc 1200
 aaattttcca cattttgtat ttcataataa aaatataatt taagaaaaaa aaaaaaaaaa 1260
 aaa 1263

<210> 614
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 614
 tttttttttt ttttttttgg tgaaacaatt tattagccat gggttcagaat aatacaaaaa 60
 taaagggtgtg gctttattta cacacactct tgaagctctt ggcatcagc ggacagcaaa 120
 caccatactc agagtgatgg aattaatagc atttagggta agcaaggacc agtgtgagac 180
 tgggccccagg aaatggggag ggaatgtgag gagaaacagg gaatgacatt aaagaagaaa 240
 cagacacctt ggagaattta tgactccttt ctctatgtca tgtccagaag aggcaagtct 300
 acagagatca aagtagccta ggggtgccta gggatgggga ggttgggggtg gcgactaagg 360
 ggggctggat ttcttttggg ggtagtcaac tctaagacgg actgtgctga tggctgctga 420
 actgtgacta tactaaaccg gcatcaa 447

<210> 615
 <211> 2372
 <212> DNA
 <213> Homo sapiens

<400> 615
 gcaccgcgcg agcttggtctg cttctggggc ctgtgtggcc ctgtgtgtcg gaaagatgga 60

gcaagaagcc gagccccgagg ggcggccgcg acccctctga ccgagatcct gctgctttcg	120
cagccaggag caccgtccct ccccgatta gtgcgtacga gcgcccagtg ccctggccccg	180
gagagtggaa tgatccccga ggcccagggc gtcgtgcttc cgcagtagtc agtccccgtg	240
aaggaaactg gggagtcttg agggaccccc gactccaagc gcgaaaaccc cggatggtga	300
ggagcaggca aatgtgcaat accaacaatgt ctgtacctac tgatggtgct gtaaccacct	360
cacagattcc agcttcggaa caagagaccc tgggttagacc aaagccattg cttttgaagt	420
tattaaagtc tgttggtgca caaaaagaca cttatactat gaaagagggt cttttttatc	480
ttggccagta tattatgact aaacgattat atgatgagaa gcaacaacat attgtatatt	540
gttcaaata tcttctagga gatttggttg gcgtgccaaag cttctctgtg aaagagcaca	600
ggaaaatata taccatgac tacaggaact tggtagtagt caatcagcag gaatcatcgg	660
actcaggtac atctgtgagt gagaacaggt gtcacctga aggtgggagt gatcaaaagg	720
accttgata agagcttcag gaagagaaac cttcatcttc acatttggtt tctagaccat	780
ctacctcatc tagaaggaga gcaattagt agacagaaga aaattcagat gaattatctg	840
gtgaacgaca aagaaaacgc cacaatctg atagtatttc cctttccttt gatgaaagcc	900
tggctctgtg tgtaataagg gagatatgt gtgaaagaag cagtagcagt gaatctacag	960
ggacgccatc gaatccggat cttgatgctg gtgtaagtga acattcaggt gattgggttg	1020
atcaggattc agtttcagat cagtttagtg tagaatttga agttgaatct ctcgactcag	1080
aagattatag ccttagtgaa gaaggacaag aactctcaga tgaagatgat gaggtatatc	1140
aagttactgt gtatcaggca ggggagagtg atacagattc atttgaagaa gatcctgaaa	1200
tttccttagc tgactatttg aaatgcactt catgcaatga aatgaatccc ccccttccat	1260
cacattgcaa cagatgttgg gcccttcgtg agaattggct tcctgaagat aaagggaaaag	1320
ataaagggga aatctctgag aaagccaaac tggaaaactc aacacaagct gaagagggt	1380
ttgatgttcc tgattgtaaa aaaactatag tgaatgatc cagagagtca tgtgttgagg	1440
aaaatgatga taaaattaca caagcttcac aatcacaaga aagtgaagac tattctcagc	1500
catcaacttc tagtagcatt atttatagca gccaagaaga tgtgaaagag tttgaaaggg	1560
aagaaaccca agacaaagaa gagagtgtgg aatctagttt gcccttaat gccattgaac	1620
cttgtgtgat ttgtcaaggt cgacctaaaa atggttgcat tgtccatggc aaaacaggac	1680
atcttatggc ctgctttaca tgtgcaaaga agctaaagaa aaggaataag ccctgcccag	1740
tatgtagaca accaattcaa atgattgtgc taacttattt cccctagttg acctgtctat	1800
aagagaatta tatatttcta actatataac cctaggaatt tagacaacct gaaatttatt	1860
cacatatatc aaagtgagaa aatgcctcaa ttcacataga tttcttctct ttagtataat	1920

tgacctactt	tggtagtgga	atagtgaata	cttactataa	tttgacttga	atatgtagct	1980
catcctttac	accaactcct	aattttaaat	aattttctact	ctgtcttaaa	tgagaagtac	2040
ttgggtttttt	ttttcttaaa	tatgtatatg	acattttaaat	gtaacttatt	attttttttg	2100
agaccgagtc	ttgctctggt	accagggctg	gagtgcagtg	ggtgatcttg	gctcactgca	2160
agctctgccc	tccccgggtt	cgcaccatc	tcctgcctca	gcctcccaat	tagcttgccc	2220
tacagtcac	tgccaccaca	cctggcta	tttttgact	tttagtagag	acagggtttc	2280
accgtgttag	ccaggatgg	ctcgatctcc	tgacctcg	atccgcccac	ctcggcctcc	2340
caaagtgctg	ggattacagg	catgagccac	cg			2372

<210> 616
 <211> 3198
 <212> DNA
 <213> Homo sapiens

<400> 616	
ccgcatgctc	ccgtatcttt gggtacgctc gtcagccggt cggccgccc
gtgccgctat	gggagtcctc gcgttcttcc gctggctcag ccgcaagtac ccgtccatca
tagtcaactg	cgtggaagag aagccaaaag aatgcaatgg tgtaaagatt ccagttgatg
ccagtaaacc	taatccaaat gatgtggagt ttgataatct gtatttggtat atgaatggaa
tcatccatcc	ctgtactcat cctgaagaca aaccagcacc aaaaaatgaa gatgaaatga
tggttgcaat	ttttgagtac attgacagac ttttcagtat tgtaagacca agaagacttc
tctacatggc	aatagatgga gtggcaccac gtgtaaaaat gaaccagcag cgttcaagga
ggttcagggc	catcaaaaga ggaatggaag cagcagtcga gaagcagcga gtcagggaag
aaatattggc	aaaaggtggc tttcttcctc cagaagaaat aaaagaaaga tttgacagca
actgtattac	accaggaact gaattcatgg acaatcttgc taaatgcctt cgctattaca
tagctgatcg	tttaataat gaccctgggt ggaaaaattt gacagttatt ttatctgatg
ctagtgctcc	tggtgaagga gaacataaaa tcatggatta cattagaagg caaagagccc
agcctaacca	tgacccaaat actcatcatt gtttatgtgg agctgatgct gatctcatta
tgcttggcct	tgccacacat gaaccgaact ttaccattat tagagaagaa ttcaaaccac
acaggcccaa	accatgtgggt ctttgtaatc agtttggaac tgagggtcaaa gattgtgaag
gtttgtcaag	agaaaagaag ggaaagcatg atgaacttgc cgatagtctt ccttgtgcag
aaggagagtt	tatcttcctt cggcttaatg ttcttcgtga gtatttggaag agagaactca
caatggccag	cctaccattc acatttgatg ttgagaggag cattgatgac tgggttttca
tgtgcttctt	tgtgggaaat gacttcctcc ctcatttgcc atcgtagag attagggaaa

atgcaattga	ccgtttggtt	aacatataca	aaaatgtggt	acacaaaact	gggggttacc	1200
ttacagaaag	tggttatgtc	aatctgcaaa	gagtacagat	gatcatgtta	gcagttggtg	1260
aagttgagga	tagcattttt	aaaaagagaa	aggatgatga	ggacagtttt	agaagacgac	1320
agaaagaaaa	aagaaagaga	atgaagagag	atcaaccagc	tttcactcct	agtggaatat	1380
taactcctca	tgccttggtt	tcaagaaatt	caccagggtc	tcaagtagcc	agtaatccga	1440
gacaagcagc	ctatgacatg	aggatgcaga	ataactctag	tccttcgata	tctcctaata	1500
cgagtttcac	atctgatggc	tccccgtctc	cattaggagg	aattaagcga	aaagcagaag	1560
acagtgcag	tgaacctgag	ccagaggata	atgtcagggt	atgggaagct	ggctggaagc	1620
agcggtaacta	caagaacaaa	tttgatgtgg	atgcagctga	tgagaaattc	cgtcggaaag	1680
ttgtgcagtc	gtacgttgaa	ggactttgct	gggttcttag	atattattac	cagggctgtg	1740
cttcctggaa	gtggatttat	ccatttcatt	atgcaccatt	tgcttcagac	tttgaaggca	1800
ttgcagacat	gccatctgaa	tttgaaaagg	gtacgaaacc	gtttaaacca	ctagaacaac	1860
ttatgggggt	atttccagct	gcaagtggta	attttctacc	tccatcatgg	cggaagctca	1920
tgagtgatcc	tgattctagt	ataattgact	tctatcctga	agattttgct	attgatttga	1980
atgggaagaa	atatgcatgg	caaggtgttg	ctctcttgcc	attcgtggat	gagcgaaggc	2040
tacgagctgc	cctagaagag	gtatacccag	acctcactcc	agaagagacc	agaagaaaca	2100
gccttgagg	tgatgtctta	tttgtgggga	aacatcaccc	actccatgac	ttcattttag	2160
agctgtacca	gacaggttcc	acagagccag	tggaggtagc	ccctgaacta	tgatcatggga	2220
ttcaaggaaa	gttttctttg	gatgaagaag	ccattcttcc	agatcaaata	gtatgtgctc	2280
ctgttcctat	gttaagggat	ctgacacaga	acactgtagt	cagtattaat	tttaaagacc	2340
cacagtttgc	tgaagattac	atttttaaag	ctgtaatgct	tccaggagca	agaaagccag	2400
cagcagtact	gaaacctagt	gactggggaa	aatccagcaa	tggacggcag	tggaagcctc	2460
agcttggtct	taaccgtgac	cggaggcctg	tgcacctgga	tcaggcagcc	ttcaggactt	2520
tgggccatgt	gatgccaaaga	ggctcaggaa	ctggcattta	cagcaatgct	gcaccaccac	2580
ctgtgactta	ccagggaaac	ttatacaggc	cgtttttgag	aggacaagcc	cagattccaa	2640
aacttatgtc	aaatatgagg	ccccaggatt	cctggcgagg	tcctcctccc	cttttccagc	2700
agcaaagggt	tgacagaggc	gttggggctg	aacctctgct	cccatggaac	cggatgctgc	2760
aaaccacagaa	tgcagccttc	cagccaaacc	agtaccagat	gctagctggg	cctggtgggt	2820
atccacccag	acgagatgat	cgtggaggga	gacagggata	tcccagagaa	ggaaggaaat	2880
accctttgcc	accaccctca	ggaagataca	attggaatta	agcttttgta	aagctttccc	2940

aaatcctttc atcattctac agttttatgc tatttggtga aagatttctt tctcaagtag 3000
 tagtttttaa taaaactaca gtactttgtg tatttctttt aactgtgtat atttctactg 3060
 atctgatctc actgtttatg ttgctttcca aagatgtatg ttgcataata cagtggatct 3120
 gaatttatta atgcttataa acacatttga ggaataggag gtccgggttt tccataatgg 3180
 gtaaaatgga accagctg 3198

<210> 617
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 617
 tgagtgtaaa gaaagggtta ctcttgtat catccctcc ccgtggactg cttcaattct 60
 atcggggaca ggccagtccc tggaggctgc aaggagccac aaacctttcc cagctcacac 120
 tctgcacccc tcagtctctg ctgctaaaga atcagactca ggtagatggg gtgtccacag 180
 tctgtctca ttaccagtc ataccgggta gcatggccc agagagccct tatctctccc 240
 caccttaaaa cctcagcat cacacagcag gaaccagtcc acagggtta ccaaggatac 300
 gcagtgaaaa cagaataatg tctgttaca accccctaaa cctgagatgg ctgaagagcc 360
 agattcctgc acccatctg actccccag gcagtgggag atgacccaaa gccccattc 420
 cc 422

<210> 618
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 618
 tttttttttt tttttcatca gcaatttcaa ttttatgttt tctacttatt tttatataaa 60
 aatacaatgc aacaaaatat tcatatattg cacaaacagg gatgtgcata caaagatgct 120
 aacaacattg gctggtaata ggctttacca tgttatgatc taaatgcttg ttcataaaaa 180
 aatgtacaaa attctaagtt tggcatccaa aagggggctt acagttattg aatatttttc 240
 ccagccctat tttaaatcaa attcaagttt gcctatgaca aagactg 287

<210> 619
 <211> 515
 <212> DNA
 <213> Homo sapiens

<400> 619
 tttttttttt tttttttttt tttttttttt tctgcttaat ggcagagag ctccatgaag 60
 gaatttatta gataccacct gattctccac tgccctaaca cagcactg agttgctaag 120

```

gtccacattc agcaccaggg gaaattcgtg catcacatga catcgctca ttaaagctgt 180
cagcataact ttaccaaaca agttatataa caaccaagaa gccactggta caggataata 240
ttcagaatgt gacatgtaaa aattgcaata agtagaatat attttttatg ttgttgaaca 300
aaagaaaatt gaaagaatta aagcaatcca agggcctaga agcaagtga ttctctgata 360
cctgtgagta aggctacttt aggacagccc atgaatccat tcctcgggtt gttctgagct 420
ccttgagaaa tggccccaac tgggtttttg gagtgaacct ggttcaatac agattgcctt 480
aggatgttca ctgaaagttt cggcttgctc tggac 515

```

```

<210> 620
<211> 1843
<212> DNA
<213> Homo sapiens

```

```

<400> 620
ggaggagggtg gcggcgctgg agctcctccc ggggaccagc gacccgggga gcgagcacgt 60
cgctccgcac cgctcttcc tccagccgctg agccgtccct tctcgccatg tcccagagca 120
ggcaccgcgc cgaggccccg ccgctggagc gcgaggacag tgggaccttc agtttgggga 180
agatgataac agctaagcca gggaaaacac cgattcaggt attacacgaa tacggcatga 240
agaccaagaa catcccagtt tatgaatgtg aaagatctga tgtgcaaata cacgtgccca 300
ctttcacctt cagagtaacc gttggtgaca taacctgcac aggtgaaggt acaagtaaga 360
agctggcgaa acatagagct gcagaggctg ccataaacat ttgaaagcc aatgcaagta 420
tttgctttgc agttcctgac cccttaatgc ctgaccttc caagcaacca aagaaccagc 480
ttaatcctat tggttcatta caggaattgg ctattcatca tggctggaga cttcctgaat 540
ataccctttc ccaggaggga ggacctgctc ataagagaga atatactaca atttgcaggc 600
tagagtcatt tatggaaact ggaaaggggg catcaaaaaa gcaagccaaa aggaatgctg 660
ctgagaaaatt tcttgccaaa tttagtaata tttctccaga gaaccacatt tctttaacaa 720
atgtagtagg acattcttta ggatgtactt ggcattcctt gaggaattct cctggtgaaa 780
agatcaactt actgaaaaga agcctcctta gtattccaaa tacagattac atccagctgc 840
ttagtgaaat tgccaaggaa caaggtttta atataacata tttggatata gatgaactga 900
gcgccaatgg acaatatcaa tgtcttgctg aactgtccac cagcccatc acagtctgtc 960
atggctccgg tatctcctgt ggcaatgcac aaagtgatgc agctcacaat gctttgcagt 1020
atttaaagat aatagcagaa agaaagtaaa tctggagcaa cttaaaaaat ctttcagtag 1080
cacataaaaa gttccccctc ggcccccttc caagtaaaac ttttaccgta gtgtttatgt 1140
cttgtttcta aatctcttca tagattccat caacactcca gatttaatta tctcctcata 1200

```

```

gttggttatta agctcttttt aatggcttca actttgtatc agtatactgt atttataaac 1260
tttgtaccac aagagagagt gtagcaccca ttttacagtg ccatgcacat cagagaaaga 1320
aactgcatgt ttgttggtga tgatgaaata aaaatgctag cgacagtctt tcttactggt 1380
gcttaagctc ttctttgcac aaagctttat aaaggaatt caaaggaagc cctttagaat 1440
tagagtcttg agggacagca ctaacaggcc tttattaagt atgattgatt gttaaatttc 1500
aggaacatg attggctctgc tgtgtatttg aattcatgta acaaagaact gttacgatgg 1560
gattctgctc attttattaa aaagctactg acttgactgt catcctgttc ttgttagcca 1620
ttgtgaataa gattttaatg ttgataattc tgttatttac atatctctaa tttactttga 1680
aattcaaagg tgaaaaataaa aaatgatggc ctaagtaaaa tttaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaccccc ggg 1843

```

```

<210> 621
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<400> 621
tttttttttt tttttgcctc ttccacttgg tctgcagtct gattcactcc tttactttcc 60
tccaatatac tgacccttgg gacttgggta ttgctggcct gctttgggcc ctcaggctct 120
ttgcctgctg gtttctgagc tttccatagt cacagtctgg ttttaggcag aaactgtacc 180
tccatttgca atcaaccctt ttgcagctgt gccttacgct tcttactgtg tttttaccaa 240
ttcatctgga acaaactaga aaaggaa 267

```

```

<210> 622
<211> 363
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (316)..(316)
<223> n is a, c, g, t or u

```

```

<400> 622
ctttgccatc aggtggtggt caacgaaggg gcccttcttc agcgaacgag tcatggccta 60
gcccttactt cttgcgacgc gagacgatga acgtctgcgt gcgcttggtg ttgcgagtgc 120
ggtagccctt cgtcagggtg ttccacggcg acacagggac ctggccctcg ccggtgcggc 180
cttcgccacc accgtgcggg tgatccaccg ggttcatggc aacgccacga acggtcgggc 240
ggatgccctt ccagcggatc gcgccggcct tgccgtactg gcgcaggctg tgctcttcgt 300

```

tgctcacttc accganggtg gcgcggcagt cgatgtgcac gcggcggact tcgccggagc 360
gca 363

<210> 623
<211> 345
<212> DNA
<213> Homo sapiens

<400> 623
acaatttcac acaggagatc tcagacagat gactatatcc ttccctgggt acttgcaggg 60
taagcacatc ccctcgaaat agcagcagct ctaaacaatga aattcttcct ggaggatttt 120
cttactcttg agttctattc taccaaattt tttgagcact tactgtcagg cattcagaat 180
gtgagcaatg acaataattt acctacactt ttgcacttac agtatgctgg gccagttga 240
ttctcaaaac agttctggga attagctata aaaatgcccc catcttacag atgaggaagc 300
tcaggctcag aaaggcaaaa aaaaaaaagc cctatagtga gtcgt 345

<210> 624
<211> 417
<212> DNA
<213> Homo sapiens

<400> 624
gcaaaggaaa atgaatattw attcaatgtc cagattgggg aggggtctgt gtgtttaaca 60
ggaaaagwta cagaaaaama cctatcacam aggaaaagat aaatatgtyt gaytatytha 120
mmagggtgaaa ccataacca aaatttaaag gcaaattcac acaagtggaa atacagatgc 180
ccaactatcg tacaaargra accatgwtca aggtcactaa caagcaaaga attttmagtt 240
tttbbtgttt ttbgttgttt ttyatttgrg acggrgtytc gytctgtcac ccaggctggr 300
gtscagtggc gcgatcttgg ytcactgcaa cctccgcctc ctgggttcaa gcaattctct 360
gcctcagcct cccaagtagc tgggdttaca ggcgcccgcc accacgcccg gctaatt 417

<210> 625
<211> 2422
<212> DNA
<213> Homo sapiens

<400> 625
gtcagcctcc ctccaccgc catattgggc cactaaaaaa agggggctcg tcttttcggg 60
gtgtttttct cccctcccc tgtccccgt tgtcacggc tctgcgactc cgacgccggc 120
aaggtttgga gagcggctgg gtgcgcggga ccgcgggct tgcacccgcc cagactcgga 180
cgggctttgc caccctctcc gcttgccctgg tccccctctc tctccgccct cccgctcgcc 240
agtcatttg atcagcggag actcggcggc cgggccgggg ctccccgca gccctgcgc 300

gctcctagag ctcgggccgt ggctcgtcgg ggtctgtgtc ttttggctcc gagggcagtc	360
gctgggcttc cgagaggggt tcgggccgcg taggggcgct ttgttttggt cggttttggt	420
tttttgagag tgcgagagag gcggtcgtgc agaccggga gaaagatgtc aaacgtgcga	480
gtgtctaacg ggagccctag cctggagcgg atggacgcca ggcaggcggga gcaccccaag	540
ccctcggcct gcaggaacct cttcggcccc gtggaccacg aagagttaac ccgggacttg	600
gagaagcact gcagagacat ggaagaggcg agccagcgca agtggaattt cgattttcag	660
aatcacaac ccctagaggg caagtacgag tggcaagagg tggagaaggg cagcttgccc	720
gagttctact acagaccccc gcggcccccc aaaggtgcct gcaaggtgcc ggcgcaggag	780
agccaggatg tcagcgggag ccgcccggcg gcgcctttaa ttggggctcc ggctaactct	840
gaggacacgc atttggtgga cccaaagact gatccgtcgg acagccagac ggggttagcg	900
gagcaatgcg caggaataag gaagcgacct gcaaccgacg attcttctac tcaaaacaaa	960
agagccaaca gaacagaaga aaatgtttca gacgggtccc caaatgccgg ttctgtggag	1020
cagacgcccc agaagcctgg cctcagaaga cgtcaaacgt aaacagctcg aattaagaat	1080
atgtttcctt gtttatcaga tacatcactg cttgatgaag caaggaagat atacatgaaa	1140
attttaaaaa tacatatcgc tgacttcatg gaatggacat cctgtataag cactgaaaaa	1200
caacaacaca ataacactaa aattttaggg actcttaa at gatctgcctc taaaagcggt	1260
ggatgtagca ttatgcaatt aggtttttcc ttatttgctt cattgtacta cctgtgtata	1320
tagtttttac cttttatgta gcacataaac tttggggaag ggagggcagg gtggggctga	1380
ggaactgacg tggagcgggg tatgaagagc ttgctttgat ttacagcaag tagataaata	1440
tttgacttgc atgaagagaa gcaattttgg ggaagggttt gaattgtttt ctttaaagat	1500
gtaatgtccc tttcagagac agctgatact tcatttaaaa aaatcacaaa aatttgaaca	1560
ctggctaaag ataattgcta tttattttta caagaagttt attctcattt gggagatctg	1620
gtgatctccc aagctatcta aagtttggtta gatagctgca tgtggccttt ttaaaaaagc	1680
aacagaaacc taccctcact gccctcccca gtctctctta aagttggaat ttaccagtta	1740
attactcagc agaatgggtga tcaactccagg tagtttgggg caaaaatccg aggtgcttgg	1800
gagttttgaa tgttaagaat tgaccatctg cttttattaa atttgttgac aaaattttct	1860
cattttcttt tcacttcggg ctgtgtaa ac agtcaaaa taattctaaa tccctcgata	1920
tttttaaaga tctgtaagta acttcacatt aaaaaatgaa atatttttta atttaaagct	1980
tactctgtcc atttatccac aggaaagtgt tatttttaaa ggaagggtca tgtagagaaa	2040
agcacacttg taggataagt gaaatggata ctacatcttt aaacagtatt tcattgcctg	2100

tgtatggaaa	aaccatttga	agtgtacctg	tgtacataac	tctgtaaaaa	cactgaaaaa	2160
ttatactaac	ttatttatgt	taaaagattt	tttttaattct	agacaatata	caagccaaag	2220
tggcatgttt	tgtgcatttg	taaatgctgt	gttgggtaga	ataggttttc	ccctcttttg	2280
ttaaataata	tggctatgct	taaaagggtg	catactgagc	caagtataat	tttttgtaat	2340
gtgtgaaaaa	gatgcccaatt	attgttacac	attaagtaat	caataaagaa	aacttccata	2400
gctaaaaaaa	aaaaaaaaaa	aa				2422

<210> 626
 <211> 3115
 <212> DNA
 <213> Homo sapiens

<400> 626	
ccaccatatac	60
ggtagaatga	120
tgaccattta	180
tcgtcccca	240
tgctggccga	300
ccactaagga	360
agatccaggc	420
gagggcagaa	480
tggtcattct	540
tgaagaagtt	600
cagaccgcag	660
ctggaggctt	720
aggacagcga	780
agcagatcaa	840
tggatgaggt	900
acaccctccc	960
gcaactacat	1020
tgcgcagcct	1080
tcgaacagcc	1140
cccagaaaca	1200
aagagttcct	1260

tgcggatggc	gaatgcagat	gccaggaaca	tgggcgcaga	cctgtgccgg	caggaccgca	1320
gctgcaccta	ctacttcagc	gtggatgctg	acgtggccct	gaccgagccc	aacagcctgc	1380
ggctgctgat	ccaacagaac	aagaatgtca	ttgccccgct	gatgaccggg	catgggaggg	1440
tgtggctgaa	cttctggggg	gctctcagtg	cagatggcta	ctatgcccgt	tccgaggact	1500
acgtggacat	tgtgcagggg	cggcgtgttg	gtgtctggaa	tgtgccctat	atttcaaaca	1560
tctacttgat	caagggcagt	gccctgcggg	gtgagctgca	gtcctcagat	ctcttccacc	1620
acagcaagct	ggacccccgac	atggccttct	gtgccaacat	ccggcagcag	gatgtgttca	1680
tgttcctgac	caaccggcac	acccttggcc	atctgctctc	cctagacagc	taccgcacca	1740
cccacctgca	caacgacctc	tgggaggtgt	tcagcaaccc	cgaggactgg	aaggagaagt	1800
acatccacca	gaactacacc	aaagccctgg	caggggaagct	ggtggagacg	ccctgcccg	1860
atgtctattg	gttccccatc	ttcacggagg	tggcctgtga	tgagctgggtg	gaggagatgg	1920
agcacttttg	ccagtggctc	ctgggcaaca	acaaggacaa	ccgcatccag	ggtggctacg	1980
agaacgtgcc	gactattgac	atccacatga	accagatcgg	ctttgagcgg	gagtggcaca	2040
aattcctgct	ggagtacatt	gcgcccata	cggagaagct	ctacccccgc	tactacacca	2100
gggcccagtt	tgacctggcc	tttgtcgtcc	gctacaagcc	tgatgagcag	ccctcactga	2160
tgccacacca	tgatgcctcc	accttcacca	tcaacatcgc	cctgaaccga	gtcgggggtg	2220
attacgaggg	cgggggctgt	cggttcctgc	gctacaactg	ttccatccga	gccccaaagga	2280
agggctggac	cctcatgcac	cctggacgac	tcacgcatta	ccatgagggg	ctccccacca	2340
ccaggggcac	ccgctacatc	gcagtctcct	tcgtcgatcc	ctaattggcc	aggcctgacc	2400
ctcttggacc	tttcttcttt	gccgacaacc	actgcccagc	agcctctggg	acctcgggggt	2460
cccaggggaac	ccagtccagc	ctcctggctg	ttgacttccc	attgctcttg	gagccaccaa	2520
tcaaagagat	tcaaagagat	tcctgcaggc	cagaggccgg	aacacacctt	tatggctggg	2580
gctctccgtg	gtgttctgga	cccagcccct	ggagacacca	ttcactttta	ctgctttgta	2640
gtgactcgtg	ctctccaacc	tgtcttcttg	aaaaaccaag	gcccccttcc	cccacctctt	2700
ccatgggggtg	agacttgagc	agaacagggg	cttccccaa	ttgcccagaa	agactgtctg	2760
ggtgagaagc	catggccaga	gcttctccca	ggcacagggtg	ttgcaccagg	gacttctgct	2820
tcaagttttg	gggtaaagac	acctggatca	gactccaagg	gctgccttga	gtctgggact	2880
tctgcctcca	tggctggtca	tgagagcaaa	ccgtagtccc	ctggagacag	ccactccaga	2940
gaacctcttg	ggagacagaa	gaggcatctg	tgacagctc	gatcttctac	ttgcctgtgg	3000
ggaggggagt	gacaggtcca	cacaccacac	tgggtcacc	tgtcctggat	gcctctgaag	3060
agagggacag	accgtcagaa	actggagagt	ttctattaaa	ggtcatttaa	accac	3115

<210> 627
 <211> 2889
 <212> DNA
 <213> Homo sapiens

<400> 627
 agatcctgtg gttcactgtg agacctccgc ctctctcgtc tgcctcacgc tgccccctcg 60
 ccccccaag gtatgacggc atttgaacaa tgcacgtgcc catctagagc cttgggggtgg 120
 gcctgtgaga gagtggccgc ccaccccagt cccaccagg tgcatagtcc tgcgggctaag 180
 tcagggcggt tgtaacaaag gctcagacct tccaactacc aggtgtgtt gtgacgagggc 240
 tgctggagcc ccaggcacca tgacgggaat ggggtgaatcc acccacagtg ggtgactctc 300
 aatgtgatac tagccccgta cacttagaca cccaaaaatc aacgcggcag acgttgtatc 360
 cccaggagaa ggaccccccc gaacagacac gtgggacaat ggcaagcatg gccatccctg 420
 aggacaatgg caggacccag agtgccctctc tcctcctcaa ggcatgaact ggccccctcca 480
 gatacagggg caaccttttc ttcccacctc ggctgtaac agacacgaca caggccatac 540
 ccttggttag agtcactgca acatgatcca gaggggtgact gtgaaaggag ccagcggggc 600
 tgctgtgtcg gttttcctgg agacacggaa atgggtacaa acttaaaaca tctgggcaga 660
 ggtctttggg ataaagtcca gaaaatcaca gctggctcca tcattcagga attgatttcc 720
 cccatgacac catcggatgc aaccttgtcc ctgccgcctc cagctctcct tgatttcccc 780
 tctgagctca caaaaagaaa caaaagctca gagaggctga ataactttcc cagcttacac 840
 ggaggagctg gggttgaaatc cagacatcac actgatcagc acgcagaccc gcagggtttc 900
 atactcttcc ggcatttcac gtacacctct ctccatctca ccgcctcacc ataggagggtg 960
 aggctattc ctatccgcac aatctgacag ggaaattgag actcagagag gttaagtaac 1020
 ttgcctaagg ccacatagct cgtaatcagg gcagcaggga ttccaggccg agcaggcagg 1080
 cccctgatcc aggctcctag cctgctgccc agggagggtca gagctggaaa ccacttccac 1140
 agcacaagga gactctgctt ggactgtgct tggcctcacg tgacctctga cctccctggc 1200
 cctcctgtga ccctgacagg tgtgctgagc ttctgaaggg tgggaaggcc tgcaaggggc 1260
 ctgcgtgcat tctgtgtgca tcgaccagg acaccacggg tgggtgcctct gagttcatca 1320
 cgtcgatcat ccccgcttctc tttctgctca agtacttgat ttgtcaacat gcacagaagg 1380
 gtgagacctg gccatggtgc tgcttgaaatc ttgttaacag ttaggctctg attcaatagt 1440
 ctgggtgggg cccaagactc tgcatttctt tttcttttct tttttctttt ttgagacgga 1500
 gtcttgctct gttgcccagg ctggagtgc gtgggtgcaat ctcagctcac tgcaacctcc 1560
 ccctcctggg ttcattgcaat tctcttgctc cagcctccca agtagctggg actataggca 1620

cgcgccacca	tgcctggcta	atTTTTgtat	ttttagtaga	gatagggttt	caccatgccg	1680
gccaggctgg	tctcaaactc	ctgacctcaa	gtgatctgcc	cgccttggcc	tcccaaagtg	1740
ctgggattcc	aggcatgagc	ccccgcaccc	gccagactct	gcatctctaa	agtgctggga	1800
ttccgggtgt	gagccccac	gcccgccaga	ctctgcatct	ctaaagcgct	cccagggatg	1860
ctgatgctgc	catctggggg	accacgcttg	gagtactgcg	gccctggcaa	accatctctt	1920
ccaggaagct	gcatcttgct	ctgccttctt	cccctgccag	cagctcagcc	ctgatcatct	1980
ctcacctgag	gcccttaaaa	gcctcccaat	cagcctctct	gcccccgacc	cccaggcctg	2040
cacccggtcc	tctcccgac	tgcagcccag	cgctgtctaa	ctgagcgacc	tgggttacat	2100
ttcagcatcc	cccatgtgat	tccctgctgt	ccacaccagc	aagtctctga	gtgcaacccg	2160
cagccacgtg	catcataatc	agctgagctg	ctggtgaagg	ggtagattcc	tgggcctcac	2220
ccctgacaga	tcctatccca	gcccctgcgg	gagggggcca	ggaatgcagc	cagttcacca	2280
gctgccctgc	caaagcctgg	caatctctgg	gcctagaggc	ttgagaacgg	tcaagcagct	2340
cgccttggt	cccctgggag	ccaccctagc	ctggaacgct	gcacaccaga	caggggtggt	2400
agagctctg	gccattccca	aatgccccac	accagcagc	gcctggaatg	tgctcatgca	2460
ggttcctcgt	gacatggaca	caccccttct	cccatcctac	ccacatgtcc	ccagcccagg	2520
cctcgttccc	actccccag	gatgccccaa	ccctccaagg	gaacaaagag	aatgctcttc	2580
cctttctcca	gaagcccagc	accggggcca	catagtcaag	cgttttgtct	ttgaaacata	2640
aaaatagcta	tagaagggt	ccgttagctg	gcatcggcc	gagagagaac	atttccatat	2700
aattagagct	taccctttca	tatggaaagt	tagacatttc	tctgtctaag	gcgcctacgt	2760
agaatatgta	atttgacctt	ctttggggga	aattttggat	tgtctttggg	atgataatat	2820
aggaaatccc	tcgagggtt	ttaaaatgta	aagaacagag	gtcccataaa	ctaagtgacc	2880
ccagaatgc						2889

<210> 628

<211> 449

<212> DNA

<213> Homo sapiens

<400> 628

tttttttttt	tttttttcaa	gcagtaaaat	tccatcagaa	aagaaaagct	ctttagacta	60
gcaatgtatg	tatgaggcac	ttatgggtta	gaaacacatt	cactgagaaa	cattttattg	120
gaaccttttc	tgggctcagc	actgagttag	gttctagggg	ttcggagata	aataaaacca	180
gttccagccc	tcaaggcact	cagggaggca	gagacataga	gcagcaatca	cattccagtg	240
aagaaagtgt	caggtgaaag	aatggtctgg	cagccaataa	gggcgctaac	gggacctgac	300

cccatgtgct ggcccagagc acaggccctg ctctagactg ctttgggttc aaactctttc 360
 tcttcactta ctagctgtgt gtccttgggc atttttcttg acctctctgt gcctgagttt 420
 cctcttctgt aaaatgaaaa ttataacag 449

<210> 629
 <211> 7391
 <212> DNA
 <213> Homo sapiens

<400> 629
 gctgcgagc gctggctgct ggctggcctc gcggagacgc cgaacggacg cggccggcgc 60
 cggcttgttg gctcgccgcc tgcagccatg accctcgcag cctgtccctc ggctcggcc 120
 cgggacgtct aaaatccac acagtcgcgc gcagctgctg gagagccggc cgctgcccc 180
 tcgtcgccgc atcacactcc cgtcccgga gctgggagca gcgcgggcag ccggcgcccc 240
 cgtgcaaact gggggtgtct gccagagcag cccagccgc tgccgctgct acccccgatg 300
 ctggccatgg cctggcgggg cgcagggccg agcgtcccgg gggcgcccgg gggcgctcgt 360
 ctcagtctgg ggttgctcct gcagttgctg ctgctcctgg ggccggcgcg gggcttcggg 420
 gacgaggaag agcggcgctg cgaccccatc cgcattctca tgtgccagaa cctcggctac 480
 aacgtgacca agatgcccac cctggttggg cacgagctgc agacggacgc cgagctgcag 540
 ctgacaactt tcacaccgct catccagtac ggctgctcca gccagctgca gttcttcctt 600
 tgttctgttt atgtgccaat gtgcacagag aagatcaaca tccccattgg cccatgcggc 660
 ggcattgtgc tttcagtcaa gagacgctgt gaaccgctc tgaaggaatt tggatttgcc 720
 tggccagaga gtctgaactg cagcaaattc ccaccacaga acgaccacaa ccacatgtgc 780
 atggaagggc caggatgatga agagggtgcc ttacctcaca aaacccccat ccagcctggg 840
 gaagagtgtc actctgtggg aaccaattct gatcagtaca tctgggtgaa aaggagcctg 900
 aactgtgtgc tcaagtgtgg ctatgatgct ggcttatata gccgctcagc caaggagtgc 960
 actgatattc ggatggctgt gtgggccagc ctgtgtttca tctccactgc cttcacagta 1020
 ctgaccttc tgatcgattc ttctaggttt tcctaccctg agcgccccat catatttctc 1080
 agtatgtgct ataattttta tagcattgct tatattgtca ggctgactgt aggcgggaa 1140
 aggatatcct gtgattttga agaggcagca gaacctgttc tcatccaaga aggacttaag 1200
 aacacaggat gtgcaataat tttcttgctg atgtactttt ttggaatggc cagctccatt 1260
 tgggtgggtta ttctgacact cacttggttt ttggcagcag gactcaaag gggcatgaa 1320
 gccattgaaa tgcacagctc ttatttccac attgcagcct gggccatccc cgcagtgaaa 1380
 accattgtca tcttgattat gagactggtg gatgcagatg aactgactgg cttgtgctat 1440

gttgaaacc	aaaatctcga	tgcctcacc	gggttcgtgg	tggtccct	ctttacttat	1500
ttggtcattg	gaactttggt	cattgctgca	ggtttggtgg	ccttggtcaa	aattcgggtca	1560
aatcttcaaa	aggatgggac	aaagacagac	aagttagaaa	gactgatggg	caagattggg	1620
gtgttctcag	tactgtacac	agttcctgca	acgtgtgtga	ttgcctgtta	tttttatgaa	1680
atctccaact	gggcactttt	tcggtattct	gcagatgatt	ccaacatggc	tggtgaaatg	1740
ttgaaaattt	ttatgtcttt	gttggtgggc	atcacttcag	gcatgtggat	ttggtctgcc	1800
aaaactcttc	acacgtggca	gaagtgttcc	aacagattgg	tgaattctgg	aaaggtaaag	1860
agagagaaga	gaggaaatgg	ttgggtgaag	cctggaaaag	gcagtgagac	tgtggtataa	1920
ggctagtcag	cctccatgct	ttcttcattt	tgaagggggg	aatgccagca	ttttggagga	1980
aattctacta	aaagttttat	gcagtgaatc	tcagtttgaa	caaactagca	acaattaagt	2040
gaccccgctc	aacccactgc	ctcccacccc	gacccagca	tcaaaaaacc	aatgattttg	2100
ctgcagactt	tggaatgatc	caaaatggaa	aagccagtta	gaggctttca	aagctgtgaa	2160
aatcaaaac	gttgatcact	ttagcagggt	gcagcttgga	gcgtggaggt	cctgcctaga	2220
ttccaggaag	tccagggcga	tactgttttc	ccctgcaggg	tgggatttga	gctgtgagtt	2280
ggtaactagc	aggagaaaat	attaactttt	ttaacccttt	accattttta	atactaactg	2340
ggtctttcag	atagcaaagc	aatctataaa	cactggaaac	gctgggttca	gaaaagtgtt	2400
acaagagttt	tatagtttgg	ctgatgtaac	ataaacatct	tctgtggtgc	gctgtctgct	2460
gtttagaact	ttgtggactg	cactcccaag	aagtgggtgt	agaatctttc	agtgcctttg	2520
tcataaaaca	gttatttgaa	caaacaaaag	tactgtactc	acacacataa	ggtatccagt	2580
ggattttttct	tctctgtctt	cctctcttaa	atttcaacat	ctctcttctt	ggctgctgct	2640
gttttcttca	ttttatgtta	atgactcaaa	aaaggatttt	ttatagaatt	tttgactgc	2700
agcatgctta	aagaggggaa	aaggaagggt	gattcacttt	ctgacaatca	cttaattcag	2760
aggaaaatga	gatttactaa	gttgacttac	ctgacggacc	ccagagacct	attgcattga	2820
gcagtgggga	cttaatatat	tttacttggt	tgattgcac	tatgcagacg	ccagtctgga	2880
agagctgaaa	tgtaagttt	cttggcaact	ttgcattcac	acagattagc	tgtgtaattt	2940
ttgtgtgtca	attacaatta	aaagcacatt	gttggaccat	gacatagtat	actcaactga	3000
ctttaaaact	atggtcaact	tcaacttgca	ttctcagaat	gatagtgcct	ttaaaaattt	3060
ttttattttt	taaagcataa	gaatgttatc	agaatctggg	ctacttagga	caatggagac	3120
tttttcagtt	ttataaagg	aactgaggac	agctaatacca	actacttggt	gcgtaattgt	3180
ttcctagtaa	ttggcaaagg	ctccttgtaa	gatttcactg	gaggcagtg	ggcctggagt	3240

atttatatgg tgcttaatga atctccagaa tgccagccag aagcctgatt ggtagtagg	3300
gaataaagt tagaccatat gaaatgaact gcaaactcta atagcccagg tcttaattgc	3360
cttagcaga ggtatccaaa gcttttaaaa tttatgcata cgttcttcac aagggggtac	3420
ccccagcage ctctcgaaaa ttgcacttct cttaaaactg taactggcct ttctcttacc	3480
ttgccttagg ccttctaatac atgagatctt ggggacaaat tgactatgtc acaggttgct	3540
ctccttgtaa ctcatacctg tctgcttcag caactgcttt gcaatgacat ttatttatta	3600
attcatgcct taaaaaata ggaagggag cttttttttt tctttttttt tttttcaatc	3660
acactttgtg gaaaaacatt tccagggact caaaattcca aaaaggtggg caaattctgg	3720
aagtaagcat ttcctctttt ttaaaaattt ggtttgagcc ttatgcccac agtttgacat	3780
ttccctttct tctttccttt ttgtttttgt gtggttcttg agctctctga catcaagatg	3840
catgtaaagt cgattgtatg ttttggaagg caaagtcttg gcttttgaga ctgaagttaa	3900
gtgggcacag gtggccctg ctgctgtgcc cagtctgagt accttggtta gactctaggt	3960
caggctccag gagcatgaga attgatcccc agaagaacca ttttaactcc atctgatact	4020
ccattgccta tgaaatgtaa aatgtgaact ccctgtgctg cttgtagaca gttcccataa	4080
ctgtccacgg ccctggagca cgcacccagg ggcagagcct gcccttactc acgctctgct	4140
ctggtgtctt gggagttgtg cagggactct ggcccaggca ggggaaggaa gaccaggcgg	4200
taggggactg gtcttgctgt tagagtatag aggtttgtaa tgcagttttc ttcataatgt	4260
gtcagtgatt gtgtgaccaa ggcagcatct agcagaaagc caggcatgga gtaggtgatc	4320
gatacttgct aatgactaaa taataacaat aaaagagcac ttgggtgaat ctgggcacct	4380
gattttctgag ttttgagttc tggagctagt gttttgacaa tgctttgggt tttgacatgc	4440
cttttccaca aatctcttgc cttttcaggg caaagtgtat ttgatcagaa gtggccattt	4500
ggattagtag ccttagcaat gctacagggg tataggcctc tcctttcaca ttccagacaa	4560
tggagagtgt ttatggtttc aggaaaagaa ctttgtggct gaggggtcag ttaccagtga	4620
ccttcaatca actccatcac ttcttaaatac ggtatttggt aaaaaaatca gttattttat	4680
ttattgagtg ccgactgtag taaagccctg aaatagataa tctctgttct tctaactgat	4740
ctaggatggg gacgcaccca ggtctgctga actttactgt tcctctggga aaggagcagg	4800
gacctctgga attcccatct gtttactgt ctccattcca taaatctctt cctgtgtgag	4860
ccaccacacc cagcctgggt ctctctactt ttaacacatc tctcatccct ttcccaggat	4920
tccttccaag tcagttacag gtggttttaa cagaaagcat cagctctgct tcgtgacagt	4980
ctctggagaa atcccttagg aagactatga gagtaggcca caaggacatg ggccacaca	5040
tctgctttgg ctttgccggc aattcagggc ttgggttatt ccatgtgact tgtataggta	5100

tatttgagga cagcatcttg ctagagaaaa ggtgaggggtt gtttttcttt ctctgaaacc	5160
tacagtaaatt gggatatgatt gtagcttcct cagaaatccc ttggcctcca gagattaaac	5220
atgggtgcaat ggcacctctg tccaacctcc tttctggttag attcctttct cctgcttcat	5280
ataggccaaa cctcagggca agggaaacatg ggggtagagt ggtgctggcc agaaccatct	5340
gcttgagcta cttggttgat tcatatcctc tttcctttat ggagacccat ttcctgatct	5400
ctgagactgt tgctgaactg gcaacttact tgggcctgaa actggagaag gggtgacatt	5460
ttttaattt cagagatgct ttctgatttt cctctcccag gtcactgtct cacctgcact	5520
ctccaaactc aggttccggg aagcttgtgt gtctagatac tgaattgaga ttctgttcag	5580
caccttttag ctctatactc tctggctccc ctcatcctca tggctactga attaaatgct	5640
tattgtattg agaaccaaga tgggacctga ggacacaaag atgagctcaa cagtctcagc	5700
cctagaggaa tagactcagg gatttcacca ggtcggtgca gtatttgatt tctggtgagg	5760
tgaccacagc tgcagttagg gaagggagcc attgagcaca gactttggaa ggaacctttt	5820
ttttgttgtt tgtttgtttg tttgttgtt tgtttgttg agacagggtc ttgctctgtc	5880
accaggtctg gggcgcaatg gcacgatctt ggctcactgc aacctctgcc tcctgggttc	5940
aagtgtattc cctgccacag cctcctgagg agctgggact acaggtgcgt gctaccacgc	6000
ccagctactt ctgtattttt agtagagacg gggtttcact gtgttgggca ggctggtctc	6060
gaactcctga cctcatgatc tgccgcctc agcctcccaa agtgctggga ttacaagtgt	6120
gagccaccac acctggcctg gaaggaacct cttaaaatca gtttacgtct tgtattttgt	6180
tctgtgatgg aggacactgg agagagttgc tattccagtc aatcatgtcg agtcactgga	6240
ctctgaaaat cctattgggt cttttatttt atttgagttt agagttccct tctgggtttg	6300
tattatgtct ggcaaatgac ctgggttata acttttcctc cagggttaga tcatagatct	6360
tggaaactcc ttagagagca ttttgctcct accaaggatc agatactgga gccccacata	6420
atagatttca tttcactcta gcctacatag agctttctgt tgctgtctct tgccatgcac	6480
ttgtgcggtg attacacact tgacagtacc aggagacaaa tgacttacag atccccgcac	6540
atgcctcttc cccttgga gctcagttgc cctgatagta gcatgtttct gtttctgatg	6600
tacctttttt ctcttcttct ttgcatcagc caattcccag aatttcccca ggcaatttgt	6660
agaggacctt tttggggctc tatatgagcc atgtcctcaa agctttttaa cctccttgct	6720
ctctacaat attcagtaca tgaccactgt catcctagaa ggcttctgaa aagaggggca	6780
agagccactc tgcgccacaa aggttgggtc catcttctct ccgaggttgt gaaagttttc	6840
aaattgtact aataggctgg ggccctgact tggtgtggg ctttgggagg ggtaagctgc	6900

tttctagatc tctcccagtg aggcattggag gtgtttctga attttgtcta cctcacaggg	6960
atgttgtgag gcttgaaaag gtcaaaaaat gatggccctt tgagctcttt gtaagaaagg	7020
tagatgaaat atcggatgta atctgaaaaa aagataaaat gtgacttccc ctgctctgtg	7080
cagcagtcgg gctggatgct ctgtggcctt tcttgggtcc tcatgccacc ccacagctcc	7140
aggaaccttg aagccaatct gggggacttt cagatgtttg acaaagaggt accaggcaaa	7200
cttcctgcta cacatgccct gaatgaattg ctaaatttca aaggaaatgg accctgcttt	7260
taaggatgta caaaagtatg tctgcatcga tgtctgtact gtaaatttct aatttatcac	7320
tgtacaaaga aaacccttg ctatttaatt ttgtattaaa ggaaaataaa gttttgtttg	7380
ttaaaaaaaa a	7391

<210> 630
 <211> 1310
 <212> DNA
 <213> Homo sapiens

<400> 630	
agacgccgag atgctggtea tggcgccccg aaccgtctc ctgctgctct cggcggccct	60
ggccctgacc gagacctggg ccggctccca ctccatgagg tatttctaca cctccgtgtc	120
ccggcccggc cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acaccagtt	180
cgtgaggttc gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga	240
gcaggagggg ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac	300
tgaccgagag agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca	360
cacctccag agcatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca	420
tgaccagtac gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcctg	480
gaccgccgcg gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc	540
ggagcagcgg agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga	600
gaacgggaag gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccaccc	660
catctctgac catgaggcca ccctgaggtg ctgggcccctg ggtttctacc ctgcggagat	720
cacactgacc tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac	780
cagaccagca ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga	840
agagcagaga tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag	900
atgggagccg tcttcccagt ccaccgtccc catcggtggc attgttgctg gcctggctgt	960
cctagcagtt gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc	1020
aggtggaaaa ggaggagct actctcaggc tgcgtgcagc gacagtgcc agggtctga	1080

tgtgtctctc acagcttgaa aagcctgaga cagctgtctt gtgagggact gagatgcagg 1140
 atttcttcac gcctccccctt tgtgacttca agagcctctg gcatctcttt ctgcaaaggc 1200
 acctgaatgt gtctgcgctc ctgttagcat aatgtgagga ggtggagaga cagcccaccc 1260
 ttgtgtccac tgtgaccctt gttcgcatgc tgacctgtgt ttctctccca 1310

<210> 631
 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 631
 gcgggggtca tgcccagtca cttcggaac gagagcgcgc ccaccaccag caactggaac 60
 tacaccacg cgctcgtcgc cgacgggacg ccgtattacg tctccggcgt gcggggcgtg 120
 tacaagccgt ccgacacgtt ttcgttcacg ctctcgcct acaacgggtg gaacgccctc 180
 ggaaacccga acccgtacaa gtcgggtggg tatcgcgtcg agtggcacc cagcgacacg 240
 gtggccgtcg ccaacgcgc gcacgtcggc atcgtcgggt ctacaaggac cttcgcatct 300
 tcgaagacct ggtggtcacc 320

<210> 632
 <211> 1281
 <212> DNA
 <213> Homo sapiens

<400> 632
 cccagacctt gaactaccca gagcaagacc acagctggtg aacagtccag gagcagacaa 60
 gatggagaca aattcctctc tccccacgaa catctctgga gggacacctg ctgtatctgc 120
 tggctatctc ttcttgata tcatcactta tctggtatct gcagtcacct ttgtcctcgg 180
 ggtcctgggc aacgggcttg tgatctgggt ggctggattc cggatgacac acacagtcac 240
 caccatcagt tacctgaacc tggccgtggc tgacttctgt ttcacctcca ctttgccatt 300
 cttcatggtc aggaaggcca tgggaggaca ttggccttcc ggctgggttc tgtgcaaatt 360
 cgtctttacc atagtggaca tcaacttggt cggaagtgtc ttctgatcg ccctcattgc 420
 tctggaccgc tgtgtttgcg tcctgcatcc agtctggacc cagaaccacc gcaccgtgag 480
 cctggccaag aaggtgatca ttgggccctg ggtgatggct ctgctcctca cattgccagt 540
 tatcattcgt gtgactacag tacctggtaa aacggggaca gtagcctgca cttttaactt 600
 ttcgccctgg accaacgacc cttaaagagag gataaatgtg gccgttgcca tgttgacggt 660
 gagaggcatc atccggttca tcattggctt cagcgcaccc atgtccatcg ttgctgtcag 720
 ttatgggctt attgccacca agatccacaa gcaaggcttg attaagtcca gtcgtccctt 780
 acgggtcctc tcctttgtcg cagcagcctt tttctctgc tggteccat atcaggtggt 840

ggcccttata gccacagtca gaatccgtga gttattgcaa ggcatgtaca aagaaattgg 900
 tattgcagtg gatgtgacaa gtgccctggc cttcttcaac agctgcctca accccatgct 960
 ctatgtcttc atggggccagg acttccggga gaggctgata cacgcccttc ccgccagtct 1020
 ggagagggcc ctgaccgagg actcaacca aaccagtgaac acagctacca attctacttt 1080
 accttctgca gaggtggagt tacaggcaaa gtgaggaggg agctggggga cactttcgag 1140
 ctcccagctc cagcttcgtc tcaccttgag ttaggctgag cacaggcatt tcctgcttat 1200
 tttaggatta cccactcatc agaaaaaaaa aaaaaagcct ttgtgtcccc tgatttgggg 1260
 agaataaaca gatatgagtt t 1281

<210> 633
 <211> 2298
 <212> DNA
 <213> Homo sapiens

<400> 633
 cgagcgggtc tcacccgccc tctccgcacg tccgccggcg cctcaggttt ccccccggaca 60
 gttgctgtgc gacttggaca gtagaggagc gcctcccaag ttttcatcca actgccaacc 120
 ccaaagcttc cacccttctc ccctcagaga ggacgtttga tgccggggccc cttgagaggc 180
 tcattgacaa gcctgcccct ctgggtcccc ctgagcagag cctgctgacc caattgcca 240
 cctttgcggc tttgatgcct agccatgtct gcctcatcct caggcggctc ccccaggttt 300
 ccatcggtg ggaagaacgg agtaacgagt ctacgcaga aaaaggctct gagagcacct 360
 tgtggcgcac ccagtgtaac tgtgacgaaa tctcacaagc gaggaatgaa aggggacact 420
 gtgaatgtgc ggcggagtgt ccgggtgaaa accaagaatc cacctcattg cctggagatc 480
 acgccaccat cttcagaaaa gctgggtctca gtgatgcggg taagtgaacct ctctacagaa 540
 gatgatgact caggctactg taaaatgaac cgttatgata agaagattga tagtctaattg 600
 aatgcggttg gttgtctgaa gtctgaggtc aagatgcaaa aagggtgagcg ccagatggcc 660
 aaaagggttc tggaggaacg gaaggaagag ctggaggagg tggcccacga actggctgag 720
 actgagcagc agaacacggg gttgaggcac aacatcgagc gcatgaagga ggagaaggac 780
 ttcaccatac ttcagaagaa acacctacaa caggagaagg agtgcctcat gtccaagctg 840
 gtggaggcgg aaatggatgg ggctgcggct gccaaagcagg tcatggcctt gaaggatacc 900
 atcgggaagc tgaaaacgga gaaacaaatg acctgcacgg acatcaaacac cctgacaagg 960
 cagaaggaac ttctcctgca gaagctgagc acatttgagg agaccaaccg caccctccga 1020
 gacctcctga gggaacagca ctgcaaagag gattctgaaa gactaatgga gcaacaagga 1080
 gcactgctga aacggctggc ggaggccgac tcagagaaag cgcgcctgct gttactgctg 1140

caagacaagg	acaaggaggt	ggaagagctc	cttcaggaaa	tacaatgtga	gaaggctcaa	1200
gcaaagacag	cctctgagct	ttctaaatcc	atggagtcca	tgcgtgggca	tttgcaggca	1260
cagcttcggt	ccaaagaggg	tgagaacagt	cgcctgtgca	tgcagattaa	gaatctggag	1320
cgcagcggga	atcagcataa	ggcagaagtg	gaggccatca	tggagcagct	gaaggagtgt	1380
aagcagaagg	gagaccgaga	caaagagagc	ttgaagaagg	ccatccgagc	ccagaaggag	1440
cgagccgaga	agagcgagga	gtatgctgag	cagctacacg	tgcaactcgc	tgacaaggat	1500
ctttatgtcg	ctgaagcttt	atccactctg	gaatcctgga	ggagccgcta	caaccaagtt	1560
gtaaaagaaa	agggagacct	tgagctggaa	attattgtcc	tgaatgaccg	ggtaacagat	1620
cttgtaaacc	aacaacaaac	cctggaggag	aagatgcggg	aagaccggga	tagcctgggtg	1680
gagagactac	accgtcagac	tgctgagtat	tccgcattca	agctggagaa	tgagaggctg	1740
aaggccagct	ttgctccaat	ggaggacaaa	ctcaaccagg	cacacctcga	ggtccagcag	1800
ctgaaggcct	cagtgaagaa	ctatgagggg	atgattgaca	actataagag	tcaggtgatg	1860
aagaccagat	tggaggctga	tgaagtagct	gcccagctag	aacgctgtga	caaagagaac	1920
aagatcctta	aagatgagat	gaacaaagag	attgaggcgg	cacgaaggca	gttccagtct	1980
cagctggctg	acctgcagca	gctccctgac	atcctgaaga	tcacggaggc	gaagctggct	2040
gagtgccaaag	accaactgca	gggctatgag	cggaagaaca	tcgacctcac	agccatcata	2100
tcagacctgc	gcagccgggt	aagggactgg	cagaaagggt	cccacgaact	gacccgagca	2160
ggggcccgca	taccaagatg	agctgcacgc	cccccaaggg	aggactactt	ccttttttctt	2220
ggctgctgct	ttttaaaagg	agttagctat	catcagtgct	gtgaaataaa	agtctgggtg	2280
gccaaaaaaa	aaaaaaaa					2298

<210> 634
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 634	
tttttttttt	60
taaaaccccc	120
agctgaaaaa	180
cacaaaaaag	240
ggatccccct	300
tgggccagtg	359

<210> 635
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 635
 cgtcttcgac aagaccggca ccctcaccaa gggggagccc gaggtcacgg acgtcattgt 60
 cggcgacttc gatcgcgatc gggtcctggc gctcgcgggc gactcgaac gagagtccga 120
 acatcctctc gctcaggcgc tegtgcgcca cgtcgatgca accgatgtgc cgcgcttgcg 180
 cgccaccgcg ttccgcaacg tcacgggcat cggcgccctc gccgaggtcg acggccacca 240

<210> 636
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (384)..(489)
 <223> n is a, c, g, t or u

<400> 636
 tgcccttccc ttcgctggag agcccccttt ccccttttcc tgctcttcc ccatggcccc 60
 gagcatcttc cagcagaccc cagtgtatga ctcttctcta cctcccaaa gaatggggag 120
 agggaaacgag cagagcctgt gcctgagcca tctcgttcaa cgccttcaac gcggggcttg 180
 gagtcttggc ttggcactcc cttgctggtg atcttgggca aaccatgctg ggcctcgatt 240
 ttcctactgg caccagagag agcaggacga cttcttcaaa ttcttgtgca aatacggcga 300
 gaagaagtgc atgagaaagt gctttataag ctgtatagct ctcttgcccta tgagagtatc 360
 attgtagttc atctcacata accnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
 nnnnnnnnnc agaggaaa 498

<210> 637
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 637
 tttttttttg gaagagatct ttattaatag agtgctttta ttaataattc ataccttgctc 60
 taagcggtaa aaaccagca gaggattaac ccatgcccat ggtatttgaa actataaaga 120
 ataaagtttt ctctgtgatt tgtaggaat tgctcttggc tgcaagtaac agagaactga 180
 aataacagtc atttaacaca agacacaaat ttctttctgt ctcatgtaaa agaaacccaa 240
 gcagcagtc tgggccccca agtatcatca gtgactgtgg ctcttcttct ctttctgata 300

tgccatcctc caagtggggt ttccaccctc acagtcacct caagatgcaa gaacactgct	360
ggtgctccag ccattgcgtc tgcacccgca gcagaaaact ggaggaagcg ccatttgtct	420
ctccccaaa cttcccctta cat	443

<210> 638
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 638	
caccttgaga gagcactttg cagatgactc taatgaacaa tccttgaaca aagaatttta	60
aaagatttaa tctagttcat aacacagctt tatagctata gataagtcac ttaagccttc	120
tgagccttat cagtcacaaga ggaatgttaa tatgtaatac gaaatgaaga attggtgaaa	180
atactttgtg aaagaaacat aactttaaga tagtactata tctgaatccc ttgctgttcc	240
ctatatgggtg ccttacacat cataagccag caaatacctt ggtctgattg aatggtaatg	300
ggatatatatt tattaaaatc aaagttttgc tagggctggg aagctctacc aaaagaagaa	360
aaaattatct ttcttgggtc tgtttccctc ttactccac gacagtttca ttattgtaac	420
cagggatcaa tgaaagaaga aagcagggtt	450

<210> 639
 <211> 1048
 <212> DNA
 <213> Homo sapiens

<400> 639	
gccagggtgtg caggccgctc caagcccagc ctgccccgct gccgccacca tgacgctcct	60
ccccggcctc ctgtttctga cctggctgca cacatgctg gccaccatg acccctccct	120
cagggggcac cccacagtc acggtacccc aactgctac tcggctgagg aactgccctc	180
cggccaggcc cccccacacc tgctggctcg aggtgccaag tgggggcagg ctttgccctgt	240
agccctggtg tccagcctgg aggcagcaag ccacaggggg aggcacgaga ggccctcagc	300
tacgacccag tgcccgggtg tgccggccga ggaggtgttg gaggcagaca cccaccagcg	360
ctccatctca ccctggagat accgtgtgga cacggatgag gaccgctatc cacagaagct	420
ggccttcgcc gagtgcctgt gcagaggctg tatcgatgca cggacggggc gcgagacagc	480
tgcgctcaac tccgtgcggc tgctccagag cctgctggtg ctgcgccgcc ggccctgctc	540
ccgcgacggc tcggggctcc ccacacctgg ggcctttgcc ttccacaccg agttcatcca	600
cgtccccgct ggctgcacct gcgtgctgcc ccgttcagtg tgaccgccga ggccgtgggg	660
cccctagact ggacacgtgt gctccccaga gggcaccccc tatttatgtg tatttattgt	720

tatttatatg cctcccccaa cactaccctt ggggtctggg cattccccgt gtctggagga	780
cagcccccca ctgttctcct catctccagc ctcagtagtt gggggtagaa ggagctcagc	840
acctcttcca gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggttc	900
cctgtcctgc tcccggcttc ccttacccta tcactggcct caggcccccg caggctgcct	960
cttcccaacc tccttgaag taccctgtt tcttaaaca ttatttaagt gtacgtgtat	1020
tattaaactg atgaacacat ccccaaaa	1048

<210> 640
 <211> 633
 <212> DNA
 <213> Homo sapiens

<400> 640	
tttttttttt ttttttttac ataactagaa taaaatttaa tgtaaattgtg ccaaagagga	60
gaagaaatca catgagattt acaaaactta catgaaataa gaaaatgttc agctatgtaa	120
taaccaaagc ttccttaact tgggaatctt gggaacctag aaagtgaggt aaccaagcc	180
aaattcctct ggtgtcacag ttcctcctat accaggccag gcacttgcca atgacactgg	240
agtaggggta agccctgggt gtgttgtgta gtgtgtgacg tagtaggtga aaaacagcaa	300
agaggttaatt ctttattctc gagagcttcc tcgtgcacat gatcagcttt tgcacatgct	360
tgaaggaaaa acaacactat taaaatgtct ttttaaaagt caaagctaaa tgagtatgca	420
ataaagcttt gagaaatgga aaagaaaatc tatgaggaaa acgtcagctt gcttatccag	480
ggaatgagca ggacttaatt ctcatgccgg catggggctg ccgggcaccc agctcctttc	540
ctgtgggtag aaaacaagtc cccaagttgc tactgagcca aactgtaaag gccagtcagg	600
aaatgagcag cagtgtctgaa tgggcctcgt gcc	633

<210> 641
 <211> 306
 <212> DNA
 <213> Homo sapiens

<400> 641	
gacactgtcc aaagggtttc catcctgtcc tggaatcaga gttggaagct gaggagcttc	60
agcctctttt atgggtttaat ggccacctgt tctctcctgt gaaaggcttt gcaaagtcac	120
attaagtttg catgacctgt tatccctggg gccctatttc atagaggctg gccctattag	180
tgatttccaa aaacaatatg gaagtgcctt ttgatgtctt acaataagag aagaagccaa	240
tggaaatgaa agagattggc aaaggggaag gatgatgcca tgtagatcct gtttgacatt	300
tttatg	306

<210> 642
 <211> 2311
 <212> DNA
 <213> Homo sapiens

<400> 642
 tagccagaaa agggggcgagg aagggtgta gggacttgt caattcgccg ccatgaacgt 60
 ggtttttgct gtgaagcagt acatttccaa aatgatagag gacagcgggc ctggtatgaa 120
 agtacttctc atggataaag agacgactgg catagtgagt atgggtataca cacaatcgga 180
 gattctacag aaggaagtgt acctctttga acgcattgat tctcaaaatc gagagatcat 240
 gaaacacctg aaggcaattt gttttcttcg acctacaaag gagaatgtgg attatatattat 300
 tcaggagctc cgaagaccca aatacactat atatttcatt tatttcagta atgtgatcag 360
 caagagtgac gtgaagtcac tggctgaagc tgatgaacag gaagttgtgg ctgagggttca 420
 ggaattttat ggtgattaca ttgctgtgaa cccacatttg ttttcctca atattttggg 480
 ttgctgccag ggtcgaaatt gggatccagc ccagctatct agaacaactc aagggtctac 540
 agctctcctt ttatctctga agaagtgtcc catgattcgt tatcagctct catcagaggc 600
 agcaaagaga cttgcagagt gcgttaagca agtgataact aaagaatatg aactgtttga 660
 attccgtcgg acagagggtc ctccattgct ccttatttta gatcgctgtg atgatgccat 720
 caccctattg ctaaacctgt ggacatatca ggcatgggc caggaactac taggcataaa 780
 caacaatcgg attgatcttt ccagagtgcc gggaatcagt aaagacttaa gagaagtggg 840
 cctatctgct gaaaatgatg aattctatgc taataatatg tacctgaact ttgctgagat 900
 tggtagcaat ataaagaatc tcatggaaga ttttcagaag aagaaaccaa aagaacagca 960
 aaaactagaa tcaatagcag acatgaaggc gtttggtgag aattatccac agttcaagaa 1020
 aatgtctggg actgtttcaa agcatgtgac agtggttggg gaactgtctc gattgggtcag 1080
 tgaacggaat ctgctggagg tttcagaggc tgagcaagaa ctggcctgtc aaaatgacca 1140
 ttctagtgtc ctccagaata taaaaaggct tctgcagaac cccaaagtga cagagtttga 1200
 tgctgccccg ctggtgatgc tttatgcttt acattatgag cgacacagca gcaatagcct 1260
 gccaggacta atgatggacc tcaggaataa aggtgtttct gagaagtatc gaaagctcgt 1320
 gtctgcagtt gttgaatatg gtggtaaacg agtcagagga agtgacctct tcagcccca 1380
 agatgctgtg gctatcacca aacaattcct caaaggactg aagggtagtag aaaatgtata 1440
 tacacagcat caacctttcc tacatgaaac cctggatcat ctcatcaaag gaaggcttaa 1500
 ggaaaaccta tatccttatt taggccccag cacactcaga gacagacctc aggatatcat 1560
 tgtgtttgta attggaggag ccacctatga agaggctcta acagtttata acctgaaccg 1620
 caccactcct ggagtgagga ttgtcctggg aggcaccaca gtgcacaaca cgaaaagtgt 1680

```

cctagaggaa gttctggctt ctggactgca cagccgaagc aaggagagct ctcaagtcac 1740
atcaagggtca gcgagcagaa gatgaaacgg tgggtggggg aagggcacag cttcctctct 1800
tgtccccact acagggttttc cctactaaac aaagggtgtg gagagcagct ttgggttctg 1860
tgctgggttg tagaactcat ctccaggtag cccacggata cgtgggtggc acagacacaa 1920
gactcccaga gttgtcctaa caataagtct gagcccatct caaccactt ttctccggtg 1980
gtctttatgt atctgttagc acaatcactt cagttactga tgaattttgt tgggatctga 2040
cttggggaaa ggggttatcag agcctagagg ggcttaaaaa gtaatcattt gatgtacata 2100
ccacactcct tggttccctt tctcttccct taacccttct tgcttttcat taaccacatt 2160
cctgcacaac tcattttctga aaacctacca tgtttcttta cagagccatc caaaaatttt 2220
ttgtccctac atagcaattt tctgtggcac tgagaaacca tgtatgacca caataaaaat 2280
ccattttgtg aaaggaaaaa aaaaaaaaaa a 2311

```

<210> 643
 <211> 329
 <212> DNA
 <213> Homo sapiens

```

<400> 643
ttcttgggat gaggtccaaa ttactaata aggcctgaaa cctgtgtaa ttttgcctcct 60
agttatggct ggcactctgca ccacaactac agccactgcc acctccccct gccacacaca 120
cattttaaaa gtaacaatag tagtgtttct tgtgttttgc atatacagtc ttttctcatc 180
tcccagcctt cttgagcttt tcctctgcct gagatacgct cccactcaca tagacattgg 240
gggcactaaa taaaaatagc tgtttaattg aattggaatc gttccacttg gaacccaagt 300
ttggaaattt tgctacttct tgtaagct 329

```

<210> 644
 <211> 373
 <212> DNA
 <213> Homo sapiens

```

<400> 644
tttttttttt ttctgtttat attataatct ttattgcac tgatggctcct gtctcatttt 60
tgctgtctca tcagtaaacc attgcaaacc acagtgccag cccttggtgc cccacatttt 120
tgacacaata atttctcca ggtgtggctg agtcagaatt ccgtccgcgt ccatccctgt 180
gcgtcctgta tgggtgacag tgcaagggtg agaacagtgg gtgtattcag tggggaaata 240
acatgtgtgc tgtgaaagaa aatgagaaaa acacagcgct tccattaaaa aactgtatgt 300
cctcgagtcc aaaaagagt tggaaaaaaa cactcgggc catctgggca tctgttcaga 360

```

tgaacgatct tgt

373

<210> 645

<211> 351

<212> DNA

<213> Homo sapiens

<400> 645

cacagtcaca cctcaggggtg agccagctct gcaataggat gcactgcttt gtctgcagcc 60
 tcacagacct gaaatgcact ctcatgtcct gtgcctcagt gctggctggg ccttggctct 120
 attacatctt gaactcaagg taatacatca gtggccggga ttcacactca gaaccacctt 180
 gaaagtctgt gctgttacca ccatgtcaca gaggtagaag tagatgtctg tataaacaac 240
 ctttgggtag caggtgggtca gttaggcagg aaaaatagtt ctgctacatt atatatatca 300
 ggagtatatt gacaggaaca tgtgtgttgg gaatatatat gtcagtaaca g 351

<210> 646

<211> 4692

<212> DNA

<213> Homo sapiens

<400> 646

agaatggaag agctcctgtc cggtgtgcc a gcagcccgga ctggcggtga gcgcgaggga 60
 ggctactgag aagcccggcg acggaggaac gcaggtctgc tgccagggat tgaggagact 120
 gaagaacgct gaagacaggc tgatgggctc agctggtagg ctccactatc tcgccatgac 180
 tgctgaaaat cccactcctg gagacctggc tccggccccc ctcatcactt gcaaactctg 240
 cctgtgtgag cagtctctgg acaagatgac cacactccag gaatgccagt gcatcttttg 300
 cacagcttgc ctgaaacagt acatgcagct ggcaatccga gaaggatgtg ggtctcccat 360
 cacttgccct gacatgggtg gcctaaacca cgggaccctg caggaagctg agattgcctg 420
 tttgggtacct gtggaccagt ttcaacttta tcagaggtta aaatttgaaa gagaagttca 480
 tctggacccc taccgaacat ggtgtcctgt tgcagactgt cagacagtgt gccctgttgc 540
 ctcgagtgac ccaggacagc ctgtgctggg ggaatgccct tcttgccacc tgaaattctg 600
 ctctgttgc aaggatgctt ggcattgcaga ggtctcctgt agagacagtc agcctattgt 660
 cctgccaaca gagcaccgag ccctcttttg gacagatgca gaagcccca ttaagcagtg 720
 cccagtttgc cgggtttata tcgaacgcaa tgaaggctgc gctcagatga tgtgcaaaaa 780
 ctgcaagcat acattttgct ggtactgcct ccagaacttg gataatgaca ttttcctcag 840
 acattatgac aaagggccat gcaggaataa acttggccac tcaagagcat cagtgatgtg 900
 gaaccgaaca caggtgggtg ggattcccggt aggcctgggg atcattgcct tggttacttc 960
 acccttgtaa ctctggcct ccccatgtat aatctgttgt gtctgcaagt cctgtcgggg 1020

caagaagaaa aagcacgacc catccacaac ctaaagatct ctgtgttcat acgccccaga	1080
tatgtgagtt acatgagatg gcacagtgat aaagcccat ttagtgacct tgcctccttc	1140
tccttgccaa ctttgaaagt gcctccgtgt ccagactttg aacttgacct ccagccttca	1200
gcatcaggaa aggccaagtc ctgggtgtga gtgttcctgt gtaacaagaa ctgggctcaa	1260
cgggccagct gtttctatgg agctttgggg ttccttgaga tgaatgaaca tatcatttta	1320
tcacccaaag gatctcactg gactgttcaa cttccagcca aattcaagga gcttgcgggg	1380
acatttgata taacaaatgt gttgtcattg ttggcaacat acaagataac caagaagctg	1440
gagtctgttc tgtgttgatt tgactaccat gagaaacaca ggggaaacct gatgaggaga	1500
aggataagac tgcgtaagga gaaatcctca taggagctat aaagcaggct gctgatctca	1560
gcagttgata tgggtggtgt gcctctgctg gctactgggt gtgctgtccc catgttccc	1620
ctgtgatttg gcagaaacac aataggcttc tccttgctgt atctcagctt caagcagggtg	1680
aaactgctgt gcagagggag ttgccccttc ccagtaaaag agttgcagcc tgttaaaca	1740
tgtggtctaa tttagtgtct ctcccctggc aaatgtaagt tttctaagtt ggccaacttg	1800
tctcttacag ccagtggctg tgggtctacag aattgtttca tataaaatac gggtagagt	1860
gtagagtttc aaaactttcg tcatagatat ctgggacctt tctcaggatc tgtgttcgca	1920
cagccaatag atttggaatc aggcctaaga gtacacatgg agggtaaata ttaaagtgcg	1980
tattatgtac atctagaatc catgtgactt gcagcctacc tgtaatttct atccattgag	2040
catgcatgga tatacccaat agtacacaca aaataaatgt ttacttaaga gccattctat	2100
ccttttgtga ctgaaatggg ttattgtaaa tctgcctaaa gattttttgc atattatata	2160
tgtgaatttt ggttgtaagt tcataactta cccaagggtg tagactcata actcttttaa	2220
aacagtgctt agtacaatat cctgccatct ctgtaaaaaac gctaattgat aaccgagtca	2280
tttacatggt ttcgaacaca gaatagctct tttctcagca tcattattgc tctttcagca	2340
tctgttagga cagtctgaat actttctgtt tcaaggcact gataaaaccg caacaaaaac	2400
atgtaagaaa taaaatagaa gtgctttata tatttttagt taaatttatg tatcacctca	2460
ttgtgactta ttttttccat tataccatta gtcagatttg aataacgagg ttttgaaagg	2520
ataaaacctt ttctccaatg acaggattat ataattgcta ttggcaatgt agcctgggtgc	2580
ttcatgagac ctatgctaaa tgttactgga gagttcttga agccagggat accatatcag	2640
gaactattca ggatctatga tattttctga ggtaactggg taatagaata tcaaattgct	2700
gctatctcgg acctattgtt aaaggacgat gctttgccta tgtaatagga tatatcctaa	2760
gtggggatgt gtatatttca ggaactttaa ttcacaagta tatattgata tctgatgtgt	2820

gtatagtaca tctgttggtt atgtacattt taatttacat gttgtgtaga acatagatga	2880
gaactctggg aaaacttggg aatggcaacc aaccaaatac atttttaatac atttattaga	2940
aatttctcaa tattgtgtct ttttcttttg aaactctaaa cacttcagaa aaaaacacta	3000
tcagtgtagt tcatgttagt ataattatag atttacatat atttgaatag ttaatttgct	3060
ttgttttaca cgtagccac tgcctcatta taggtaaaag gcatttataa ctgctcaggg	3120
gattacgaga actcaactga aactgaattt ttgtaacaag aatgttaata gtggcaaagt	3180
cctctgtcag taaactcttt aagcttgggt cgcgaagag tctttaaatg ggggctgatt	3240
tcaagtaacc taaaagactg tggtatcaga ggaagaggtc ccaaatttg agtaaagatg	3300
ggagaaaata aatatgtgt atttccttg cgagttgggt gaatttgcca ccttacagag	3360
tttgtatcac tgaattagct gcttttgttt tttttttttt ttttttttgc cagggtatg	3420
gagtgggggt tgtttgtcaa actgattttc aataattgga ttaattttt ttaacattg	3480
aaaagtgcct gaaaaatggt aaattcttaa atgtgtgtga gattgtcaga atcaacaaaa	3540
ctaggttggt taaacatatc tctggtacat caaggggcat gatacaaacc agtctaaaga	3600
ctgtttataa aggagagagc tggcgactta tttttatttt ttttttttgg acagagtctc	3660
cctttgtcac ccaggccgga gtgcagtggc atgatcatgg ttcacttcaa cccctacctc	3720
ctgggctcaa gtgttctct caccttatcc tcttgagcag ctgggactac aggcacacac	3780
caccacacct ggctaagttt tgtatttttt gtagagatgg ggtttctctg tgttgcccag	3840
tcttgtctca aactcctggg ctcaagcgat ctaccacct tgggctccca aagtgtcggg	3900
attacaggtg tgtgtcactg tgcctgacag ctgacagttt taactgacaa ctttgataac	3960
agaggctgct atttttgttt tagataattg gccagtgaca gagtttaccc ttgcctcctt	4020
tcttggtctg ccagctttgt cctttctgag tgattctctt tctgtattga gaggaagtgt	4080
gggtctacat agggatgttt ggatgctatg gcaagaatct ttttgtgttt ggagtgtagt	4140
ccatttgcaa tagaaataaa aaaatccgtc accaaattgt aacctggatg ttatagccca	4200
gcacttagaa atcctatgaa atgtattagc acaatatctt gccattgtcc catctaggaa	4260
attttttctt gttgtgaggt aggggaagtga ggaggaaagc catgccgaag caaatgttag	4320
aatcttaggc atcctatttg ttcatgccat gggatatttg tttggacttg gagtctgtac	4380
tttgaaagag gcctttgaaa aacaaataat tctgtgtgaa ttttcttgta gcgtgcttca	4440
tgaaaatatc tacttatcca ggtttgcaaa tgtacatggt catttgaatg taaatcacca	4500
tttcttgga cccacgttt tttcttaaaa attattctga attaaatgta tatttcttta	4560
gccttcctta cacagtacta ataaaagact tttctttctg ttcaaaaaaa aaaaaaaaaa	4620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaa	4680

aaaaaaaaaa aa

4692

<210> 647

<211> 1991

<212> DNA

<213> Homo sapiens

<400> 647

cttgctccga gaggaggtcc tcgcggacgt cagccaagat tccagaatga ctatcttgac	60
ttaccccttt aaaaatcttc ccactgcac aaaatgggcc ctacagatttt ccataagacc	120
tctgagctgt tcttcccagc tacgagctgc cccagctgtc cagacaaaaa cgaagaagac	180
gttagccaaa cccaatataa ggaatgttgt ggtggtggat ggtgttcgca ctccattttt	240
gctgtctggc acttcatata aagacctgat gccacatgat ttggctagag cagcgcttac	300
gggtttgttg catcggaaca gtgtccctaa ggaagtagtt gattatatca tctttggtac	360
agttattcag gaagtgaana caagcaatgt ggctagagag gctgcccttg gagctggctt	420
ctctgacaag actcctgttc acactgtcac catggcttgt atctctgcca accaagccat	480
gaccacaggt gttggcttga ttgcttcttg ccagtgtgat gtgatcgtgg caggtggtgt	540
tgagttgatg tccgatgtcc ctattcgtca ctcaaggaaa atgagaaaac tgatgcttga	600
tctcaataag gccaaatcta tgggccagcg actgtcttta atctctaaat tccgatttaa	660
tttcttagca cctgagctcc ctgcggtttc tgagttctcc accagtgaga ccatgggcca	720
ctctgcagac cgactggccg ctgcctttgc tgtttctcgg ctggaacagg atgaatatgc	780
actgcgctct cacagtctag ccaagaaggc acaggatgaa ggactccttt ctgatgtggt	840
accttcaaaa gtaccaggaa aagatacagt taccaaagat aatggcatcc gtccttcctc	900
actggagcag atggccaaac taaaacctgc attcatcaag ccctacggca cagtgcacgc	960
tgcaaatctt tctttcttga ctgatggtgc atctgcaatg ttaatcatgg cggaggaaaa	1020
ggctctggcc atgggttata agccgaaggc atatttgagg gatatttatgt atgtgtctca	1080
ggatccaaaa gatcaactat tacttggacc aacatatgct actccaaaag ttctagaaaa	1140
ggcaggattg accatgaatg atattgatgc ttttgaattt catgaagctt tctcgggtca	1200
gatttttgga aatttttaaag ccatggattc tgattggttt gcagaaaact acatgggtag	1260
aaaaaccaag gttggattgc ctcttttga gaagttaat aactggggtg gatctctgtc	1320
cctgggacac ccatttggag ccactggctg caggttggtc atggctgctg ccaacagatt	1380
acggaaagaa ggaggccagt atggcttagt ggctgctgt gcagctggag ggcagggcca	1440
tgctatgata gtggaagctt atccaaaata atagatccag aagaagtgc ctgaagtttc	1500
tgtgcaacac tcacactagg caatgccatt tcaatgcatt actaaatgac atttgtagtt	1560

cctagctcct cttaggaaaa cagttcttgt ggccttctat taaatagttt gcacttaagc 1620
 cttgccagtg ttctgagctt ttcaataatc agtttactgc tctttcaggg atttctaagc 1680
 caccagaatc tcacatgaga tgtgtgggtg gttgtttttg gtctctgttg tcactaaaga 1740
 ctaaagtagg gtttgcagtt gggaaagagg tcaactgaga ttgggaaatc atctttgtaa 1800
 tatttgcaaa ttatacttgt tcttatctgt gtccataaga tgtgttctct ataaaaataca 1860
 aaccaacgtg cctaattaat tatggaaaaa taattcagaa tctaaacacc actgaaaact 1920
 tataaaaaat gtttagatac ataaatatgg tggtcagcgt taataaagtg gagaaatatt 1980
 ggaaaaaaaa a 1991

<210> 648
 <211> 2811
 <212> DNA
 <213> Homo sapiens

<400> 648
 acacaggaag ctgagccggc ttggggccca gcatacacag gccccagga cccctgggga 60
 gagggccccg ctgggctggc cctgcaggga ccatggaatc cagagctgaa gggggctccc 120
 ctgctgtgtt tgattgggtt ttcgaagcgg cctgccctgc ctccctgcag gaggatcccc 180
 ccctcctgcg gcagttccct ccagacttca gggaccagga agctatgcag atggtgccta 240
 aattctgctt cccttttgat gtggaaaggg agccccccag ccccgccgtg cagcatttca 300
 ccttcgccct cacagacctt gccggcaacc gcagatttg tttctgccgc ctgcgggcgg 360
 gtacccagag ctgtctctgc atcctcagcc acctgccttg gttcgagggtg ttttacaagc 420
 tattgaacac agtgggagac ctccctagccc aggaccaagt caccgaggca gaggaacttc 480
 ttcaaaatct gtttcagcag tccctgtctg ggccccaggc ctgagtgagg cttgagctgg 540
 gcagcggagt gacggtctcc agcgggcagg gtatcccccc ccctaccggg gggaaatagca 600
 agccgctttc ctgcttcgtg gccccggact ccggccgcct gccatccatc cctgagaaca 660
 ggaacctaac ggagctggtg gtggccgtga ctgacgagaa catcgtaggg ctgttcgcgg 720
 cgctcctggc cgagagaaga gtccctgtca ccgccagcaa actcagcacc ctgacctcgt 780
 gcgtccacgc gtcctgcgcg ctccctgtacc ccatgcgctg ggagcacgtg ctgatcccca 840
 cgctgcccc acacctgctg gactactgct gcgcgcccac gccctacctc attggagtgc 900
 acgccagtct cgccgagaga gtacgagaaa aagccctgga ggacgtcgtg gtgctgaacg 960
 tggacgcaa taccttgag acgacctta acgacgtgca ggcgctgcct ccagacgtgg 1020
 tgtccctgct gaggtccgg ctcaggaagg tcgccctggc ccccggggaa ggggtgtccc 1080
 gtctcttcct caaagcccag gccctgctct tcggggggta ccgcgacgca ctgctctgca 1140

```

gcccgggcca gccagtgacc ttcagtgagg aagtcttctt ggcccagaag cctggggcac 1200
ctctgcaggc cttccaccgg cgggctgtgc acctgcagct gttcaaacag ttcattcgaag 1260
cccggtgga gaagctcaac aagggggagg gcttctcaga tcaattcgag caggagatca 1320
ctggctgagg ggcctcccca ggggcccttc gatcctatca gctctggggc gacaatctaa 1380
agaaaggtgg tggcgccctc ctgcactcag tcaaggccaa gacccaacca gccgtcaaga 1440
acatgtaccg ctgggccaag agtggcttga agggggtgca gagccttcta atgtataagg 1500
atggggactc tgtctcgcag agggggggct ctctgagggc cccagccctc cccagccgct 1560
cagaccgcct gcagcaacgc ctcccaatca ctcagcactt tggaaagaac cgcccccttc 1620
gccccagcag gagacgccag ctggaagagg gaacttccga gccccagggg gcggggacac 1680
ccccactgag ccctgaggat gaggggtgcc cgtgggcaga agaagctctg gacagcagct 1740
tcttggggtc tggagaagaa ctggatttgt tgagcgagat tctggacagt cttagcatgg 1800
gagccaagag cgcaggcagc ctgagaccga gccagagttt agactgctgt cacagaggag 1860
acctggacag ctgcttcagc ctgccaaca tactaagatg gcaaccagac gataagaaac 1920
taccagagcc ggagccccag cccctttccc tgccatccct gcaaaatgcc tcgtctttgg 1980
atgccaccag ctcttcaaag gactccaggt cccagctgat accctcagag tccgaccaag 2040
aagtcacgtc tccatcccag tcctcaacag cttctgcaga cccaagcatc tggggggacc 2100
ccaaaccctc tcctctcaca gagcccttaa ttcttcatct cacccttcc cacaaggcag 2160
ctgaagattt tacagcccag gaaaacccca ctccctggct ctccactgca cccactgagc 2220
ccagccctcc agaaagcccc caaattcttg ccccccacaaa gcccaacttt gatatagcct 2280
ggacgtccca gccccttgat ctttctcag accccagttc tctggaggac cccagagccc 2340
ggcctcccaa agccctgctg gcagagcgcg ctcacctcca gccacgggag gaaccaggag 2400
ccctgaattc ccctgctaca cccaccagca actgtcaaaa gtcccagccc agcaagccgg 2460
cccagagtgc ctgatcttaa gaagtgtttt gaggggttaag aatcaggggt ccaagagaga 2520
ccccagtccc tcaataaagc cacaagagcc caaaaaagct ggtttttttc ctggtgaatt 2580
tctctggtgc cctcactctg ctcggaatc catcccaccc acctctgtcc ctccaagggc 2640
agcctctcta actggctcct agcagggaat tccaggaagc ctctgtgtct tctagaatcc 2700
tggcaacctt acaattcttc tcggcatttg tcacttccat ctcagctaata gacccacca 2760
gctcaaacac accaataaag cttttgttac tctcaaaaaa aaaaaaaaaa a 2811

```

<210> 649
 <211> 2315
 <212> DNA

<213> Homo sapiens

<400> 649

```

ttttttcctg tttctctgca gttttcctca gctttgggtg gtggccgctg ccgggcatcg      60
gcttccagtc cgcgaggggc gaggcggcgt ggacagcggc ccgggcaccc agcgccccgc      120
cgcccgcaag ccgcgcgccc gtccgcgcg ccccgagccc gccgcttctt atctcagcgc      180
cctgccgccc ccgccgcggc ccagcgagcg gccctgatgc aggccatcaa gtgtgtggtg      240
gtgggagacg gagctgtagg taaaacttgc ctactgatca gttacacaac caatgcattt      300
cctggagaat atatccctac tgtctttgac aattattctg ccaatgttat ggtagatgga      360
aaaccggtga atctgggctt atgggataca gctggacaag aagattatga cagattacgc      420
cccctatcct atccgcaaac agatgtgttc ttaatttgct tttcccttgt gagtcctgca      480
tcatttgaaa atgtccgtgc aaagtgggat cctgaggtgc ggcaccactg tcccaacact      540
cccatcatcc tagtggaac taaacttgat cttagggatg ataaagacac gatcgagaaa      600
ctgaaggaga agaagctgac tcccatcacc tatccgcagg gtctagccat ggctaaggag      660
attggtgctg taaaatacct ggagtgctcg gcgctcacac agcgaggcct caagacagtg      720
tttgacgaag cgatccgagc agtcctctgc ccgcctcccg tgaagaagag gaagagaaaa      780
tgctgtgtgt tgtaaattgt tcagcccctc gttcttggtc ctgtcccttg gaacctttgt      840
acgctttgct caaaaaaaaa caaaaaaaaa aaacaaaaaaaa aaaaaacaac ggtggagcct      900
tcgcactcaa tgccaacttt ttgttacaga ttaatttttc cataaaacca ttttttgaac      960
caatcagtaa ttttaagggt ttgtttgttc taaatgtaag agttcagact cacattctat     1020
taaaatntag ccctaaaatg acaagccttc ttaaagcctt atttttcaaa agcgcccccc     1080
ccattcttgt tcagattaag agttgccaaa ataccttctg aactacactg cattgttgtg     1140
ccgagaacac cgagcactga actttgcaaa gaccttcgtc tttgagaaga cggtagcttc     1200
tgcagttagg aggtgcagac acttgctctc ctatgtagtt ctcagatgcg taaagcagaa     1260
cagcctcccg aatgaagcgt tgccattgaa ctcaccagtg agttagcagc acgtgttccc     1320
gacataacat tgtactgtaa tggagtgagc gtagcagctc agctcttttg atcagtcttt     1380
gtgatttcat agcgagtttt ctgaccagct tttgcggaga ttttgaaacag aactgctatt     1440
tcctctaata aagaattctg tttagctgtg ggtgtgccgg gtgggggtgt tgtgatcaaa     1500
ggacaaagac agtattttga caaaatacga agtggagatt tacactacat tgtacaagga     1560
atgaaagtgt cacgggtaaa aactctaaaa ggttaatttc tgtcaaatgc agtagatgat     1620
gaaagaaagg ttggtattat caggaaatgt tttcttaagc ttttcctttc tcttacacct     1680
gccatgcctc cccaaattgg gcatttaatt catctttaaa ctggttggtc tgtagtcgc     1740

```

```

taacttagta agtgcttttc ttatagaacc ccttctgact gagcaatatg cctccttgta 1800
ttataaaatc tttctgataa tgcattagaa gggttttttg tcgattagta aaagtgcctt 1860
ccatgttact ttattcagag ctaataagtg ctttccttag ttttctagta actaggtgta 1920
aaaatcatgt gttgcagctt tatagttttt aaaatatattt agataattct taaactatga 1980
accttcttaa catcactgtc ttgccagatt accgacactg tcacttgacc aatactgacc 2040
ctctttacct cgcccacgcg gacacacgcc tcctgtagtc gctttgccta ttgatgttcc 2100
tttgggtctg tgagggttctg taaactgtgc tagtgctgac gatgttctgt acaacttaac 2160
tcactggcga gaatacagcg tgggaccctt cagccactac aacagaattt tttaaattga 2220
cagttgcaga attgtggagt gtttttacat tgatcttttg ctaatgcaat tagcattatg 2280
ttttgcatgt atgacttaat aaatccttga atcat 2315

```

<210> 650
 <211> 636
 <212> DNA
 <213> Homo sapiens

```

<400> 650
ggcaacaccc tgtgataatt ccagggtgatt ctctacatct gcagcttgag gtgggaagtc 60
tgaagctcag agagcctggg ccaatggtag aggtcacaca gcacatcagt ggctacatgt 120
gagctcagac ctgggtctgc tgctgtctgt cttcccaata tccatgacct tgactgatgc 180
aggtgtctag ggatacgtcc atccccgtcc tgctggagcc cagagcacgg aagcctggcc 240
ctccgaggag acagaaggga gtgtcggaca ccatgacgag agcttggcag aataaataac 300
ttcttttaaac aattttacgg catgaagaaa tctggaccag tttattaaat gggatttctg 360
ccacaaacct tggaagaatc acatcatctt agcccaaggt gaaaactgtg ttgcgtaaca 420
aagaacatga ctgcgctcca cacatacatc attgcccggc gaggcgggac acaagtcaac 480
gacggaacac ttgagacagg cctacaactg tgcacggttc aaaagcaggt ttaagccata 540
cttgctgcag tgagactaca tttctgtcta aagaagatgt ccctgacttg atctgttttt 600
caactccagt tcccagatgt gcgtgttggt gtcccc 636

```

<210> 651
 <211> 886
 <212> DNA
 <213> Homo sapiens

```

<400> 651
gtcggttccg ggcgttacca tcgtccgtgc gcaccgcccg gcgtccaggt gagtctccca 60
tctgcagaga cgcggacgcg ccggcccgcg gttggcctgc ggagcgcggt ggacggtttg 120
gcgcccacca ggcgatcaat actttggatt tttaatctct agatttggca attcttcgct 180

```

```

gaagtcatca tgagcttttt ccaactcctg atgaaaagga aggaactcat tcccttggtg 240
gtgttcatga ctgtggcggc ggggtggagcc tcatctttcg ctgtgtattc tctttggaaa 300
accgatgtga tccttgatcg aaaaaaaaaat ccagaacctt gggaaactgt ggaccctact 360
gtacctcaaa agcttataac aatcaaccaa caatggaaac ccattgaaga gttgcaaaat 420
gtccaaaggg tgaccaaatg acgagccctc gcctctttct tctgaagagt actctataaa 480
tctagtggaa acatttctgc acaaactaga ttctggacac cagtgtgcgg aaatgcttct 540
gctacatttt tagggtttgt ctacattttt tgggctctgg ataaggaatt aaaggagtgc 600
agcaataact gcactgtcta aaagtttgtg cttattttct tgtaaatttg aatattgcat 660
attgaaattt ttgtttatga tctatgaatg tttttcttaa aatttacaaa gctttgtaaa 720
ttagattttc ttttaataaaa tgccatttgt gcaagatttc tcaaagatta ggtatatatt 780
taaatggaag agaaaatatt tttatgggag aaaaatacat ttgaaccatg aaatttcac 840
ttttaataaa catccagtac agatatctgt gtaaaaaaaaa aaaaaa 886

```

<210> 652
 <211> 7686
 <212> DNA
 <213> Homo sapiens

```

<400> 652
tttatagcag cagcagaaat ataccaccct agaggacaca cctcctttta gctaggtacc 60
tataaatgtc caggattttc tattcaattg agaagaacc agcaaaatgg ggatctccac 120
agtcacctt gaaatgtgtc ttttatgggg acaagttcta tctacaggtg ggtggatccc 180
aaggactaca gactacgctt cactgattcc ctggagggtg cccttggatc aaactgtagc 240
agaaggttct ccatttcctt cggagtcgac cctggagtca actgcagcag aaggttctcc 300
gatttccttg gagtcaaccc tggagtcaac tgtagcagaa ggttctctga ttccctcaga 360
gtcaaccctg gagtcaactg tagcagaagg atctgattct ggtttgggcc tgaggctggt 420
gaatggagat ggcagggtgtc agggccgagt ggagatccta taccgaggct cctggggcac 480
cgtgtgtgat gacagctggg acaccaatga tgccaacgtg gtctgtaggc agctgggttg 540
tggctggggc atgtcagctc caggaaatgc ctggtttggc cagggtcag gacccattgc 600
cctggatgat gtgcgctgct caggacacga atcctacctg tggagctgcc ccacaaatgg 660
ctggctctcc cataactgtg gccatggtga agatgctggt gttatctgct cagctgcccc 720
gcctcagtca aactcaggc cagaaagtgt gcctgtcagg atatcaccac ctgtaccac 780
agaaggatct gaatccagtt tggccctgag gctgggtgaat ggaggcgaca ggtgtcgagg 840
ccgagtggag gtcctatacc gaggtcctg gggcaccgtg tgtgatgact actgggacac 900

```

caatgatgcc aatgtggtct gcaggcagct gggctgtggc tgggccatgt cagccccagg	960
aaatgcccag tttggccagg gctcaggacc cattgtcctg gatgatgtgc gctgctcagg	1020
acacgagtcc tacctgtgga gctgccccca caatggctgg ctccaccaca actgtggcca	1080
tagtgaagac gctggtgtca tctgctcagc tccccagtc cggccgacac ccagcccaga	1140
tacttgcccg acctcacatg catcaacagc aggacctgaa tccagtttgg ccctgaggct	1200
ggtgaatgga ggtgacaggt gtcagggccg agtggaggtc ctataccgag gctcctgggg	1260
caccgtgtgt gatgatagct gggacaccag tgacgccaat gtggtctgcc ggcagctggg	1320
ctgtggctgg gccacgtcag ccccaggaaa tgcccggttt ggccagggtt caggacccat	1380
tgtcctggat gacgtgcgt gctcaggcta tgagtcctac ctgtggagct gccccacaa	1440
tggttggtc tcccataact gtcagcacag tgaagacgt ggtgtcatct gctcagctgc	1500
ccactcctgg tcgacgcca gtccagacac gttgccgacc atcaccttac ctgcatcgac	1560
agtaggatct gaatccagtt tggccctgag gctggtgaat ggaggtgaca ggtgtcaggg	1620
ccgagtggag gtcctatacc gaggtcctg gggcaccgtg tgtgatgaca gctgggacac	1680
caatgatgcc aatgtggtct gcaggcagct gggctgtggc tgggccatgt tggccccagg	1740
aaatgcccgg tttggtcagg gctcaggacc cattgtcctg gatgacgtgc gctgctcagg	1800
gaatgagtcc tacttgtgga gctgccccca caatggctgg ctctcccata actgtggcca	1860
tagtgaagac gctggtgtca tctgctcagg acctgaatcc agtttggccc tgaggctggt	1920
gaatggaggt gacaggtgtc agggccgagt ggaggtccta taccgaggct cttggggcac	1980
cgtgtgtgat gacagctggg acaccaatga tgccaatgtg gtctgcaggc agctgggctg	2040
tggttgggcc atgtcagccc caggaaatgc ccggtttggt cagggtcag gacccattgt	2100
cctggatgat gtgcgctgct caggacatga gtccctacctg tggagctgcc ccaacaatgg	2160
ctggctctcc cacaactgtg gccatcatga agatgctggt gtcactctgct cagctgcca	2220
gtcccggtcg acgcccaggc cagacacgtt gtcgaccatc acgttacctc catcgacagt	2280
aggatctgaa tccagtttga ccctgaggct ggtgaatgga agtgacaggt gtcagggccg	2340
agtagaggtc ctataccgag gctcctgggg caccgtgtgt gatgacagct gggataccaa	2400
tgatgccaat gtggtctgca ggcagctggg ctgtggctgg gccatgtcag ccccaggaaa	2460
tgcccggttt ggccagggt caggacccat tgttctggat gatgtgcgt gctcaggaca	2520
cgagtcctac ctgtggagct gccccacaa tggttggtc tcccacaact gtggccatca	2580
tgaagatgct ggtgtcatct gctcagtttc ccagtcccgg ccgacaccca gtccagatac	2640
ttggccgacc tcacatgcat caacagcagg atctgaatcc agtttggccc tgaggctggt	2700

gaatggaggt gacaggtgtc agggccgagt ggaggtccta taccgaggct cctggggcac	2760
cgtgtgtgat gatagctggg acaccagtga cgccaatgtg gtctgccggc agctgggctg	2820
tggctggggc acgtcagccc caggaaatgc ccggtttggc cagggttcag gaccattgt	2880
cctggatgac gtgcgctgct caggctatga gtcctacctg tggagctgcc cccacaatgg	2940
ctggctctcc cataactgtc agcacagtga agacgctggt gtcattctgct cagctgcccc	3000
ctcctgggtc acgcccagtc cagacacatt gccgaccatc accttgctg catcgacagt	3060
aggatctgaa tccagtttgg ccctgaggct ggtgaatgga ggtgacaggt gtcagggccg	3120
agtggaggtc ctataccaag gtccttgggg caccgtgtgc gatgacagct gggacaccaa	3180
tgatgccaat gtcgtctgca ggcaaccggg ctgtggctgg gccatgtcag cccaggaaa	3240
tgcccggttt ggtcagggct caggacccat tgtcctggat gatgtgcgct gctcaggaca	3300
cgagtcttac ccgtggagct gccccacaa tggctggctc tcccacaact gtggccatag	3360
tgaagacgct ggtgtcatct gctcagcttc ccagtcctgg ccaacaccta gtccagacac	3420
ttggccaacc tcacatgcat caacagcagg atctgaatcc agtttggccc tgaggctggt	3480
gaatggaggt gacaggtgtc agggccgagt ggaggtccta taccgaggct cctggggcac	3540
cgtgtgtgat gactactggg acaccaatga tgccaatgtg gtttgcaggc agctgggctg	3600
tggctggggc atgtcagccc caggaaatgc ccggtttggc cagggttcag gaccattgt	3660
cctggatgat gtgcgctgct caggacatga gtcctatctg tggagctgcc cccacaatgg	3720
ctggctctcc cacaactgtg gccatcatga agacgctggt gtcattctgct cagcttcccc	3780
gtcccagccg acaccagcc cagacacttg gccaacctca catgcatcaa cagcaggatc	3840
tgaatccagt ttggccctga ggctggtgaa tggaggtgac aggtgtcagg gccgagtgga	3900
ggctcctatac cgaggctcct ggggcaccgt gtgtgatgac tactgggaca ccaatgatgc	3960
caatgtggtt tgcaggcagc tgggctgtgg ctgggccacg tcagccccag gaaatgccc	4020
gtttggccag ggttcaggac ccattgtcct ggatgatgtg cgctgctcag gacatgagtc	4080
ctatctgtgg agctgcccc acaatggctg gctctccac aactgtggcc atcatgaaga	4140
cgctggtgtc atctgctcag ctccccagtc ccagccgaca cccagcccag acacttggcc	4200
aacctcacat gcatcaacag caggatctga atccagttt gccctgaggc tggatgaatgg	4260
aggtgacagg tgtcagggc gagtggaggt cctataccga ggctcctggg gcaccgtgtg	4320
tgatgactac tgggacacca atgatgccaa tgtggtttgc aggcagctgg gctgtggctg	4380
ggccacgtca gccccaggaa atgcccgggt tggccagggt tcaggacca ttgtcctgga	4440
tgatgtgcgc tgctcaggac atgagtccta tctgtggagc tgccccaca atggctggct	4500
ctcccaaac tgtggccatc atgaagacgc tgggtgtcatc tgctcagctt ccagtcacca	4560

gccgacaccc agcccagaca cttggccaac ctctcgtgca tcaacagcag gatctgaatc	4620
cacttttgcc ctgagactgg tgaatggagg tgacaggtgt cgaggccgag tggaggctct	4680
ataccaaggc tcctggggca ccgtgtgtga tgactactgg gacaccaatg atgccaacgt	4740
ggtctgcagg cagctgggct gtggctgggc catgtcagcc ccaggaaatg cccagtttgg	4800
ccagggtca ggacccattg tcctggatga tgtgcgctgc tcaggacacg agtcttacct	4860
gtggagctgc cccacaatg gctggctctc ccacaactgt ggccatcatg aagatgctgg	4920
tgtcatctgc tcagctgctc agtcccagtc aacgcccagg ccagatactt ggctgaccac	4980
caacttaccg gcattgacag taggatctga atccagtttg gctctgaggc tggatgaatgg	5040
aggtgacagg tgctgaggcc gagtggaggc cctgtatcga ggctcctggg gaaccgtgtg	5100
tgatgacagc tgggacacca atgatgccaa tgtggctctgc aggcagctgg gctgtggctg	5160
ggccatgtcg gccccaggaa atgcccgggt tggccagggc tcaggaccca ttgtcctgga	5220
tgatgtgcgc tgctcaggga atgagtccta cctgtggagc tgccccaca aaggctggct	5280
caccacaac tgtggccatc acgaagacgc tgggtgtcatc tgctcagcca cccaaataaa	5340
ttctactacg acagattggg ggcattccaa aactacaacc actgcaagac cctcttcaaa	5400
ttgtggtggc ttcttattct atgccagtg gacattctcc agccatcct accctgcata	5460
ctacccaac aatgctaagt gtgtttggga aatagaagtg aattctgggt atcgcataaa	5520
cctgggcttc agtaatctga aattggaggc acaccataac tgcagttttg attatgttga	5580
aatctttgat ggatcattga atagcagtct cctgctgggg aaaatctgta atgataccag	5640
gcaaataattt acatcttctt acaaccgaat gaccattcac tttcgaagtg acatcagttt	5700
ccaaaacact ggcttttttg cttggtataa ctcttccca agcgatgcca ccttgagggt	5760
ggtcaattta aattcatcct atgggtctatg tgccgggctg gtagaaattt accatgggtg	5820
cacctggggg acagtttgtg atgactcctg gaccattcag gaagctgagg tggctctcag	5880
acagctaggg tgtggacgtg cagtttcagc ccttggaat gcataatttg gctctggctc	5940
tggcccatc accctggacg atgtagagt ctcagggacg gaatccactc tctggcagt	6000
ccggaaccga ggctgggtct cccacaactg taatcatcgt gaagatgctg gtgtcatctg	6060
ctcaggaaac catctatcga cacctgtctc tttctcaac atcaccgctc caaacacaga	6120
ttattcctgc ggaggcttcc tatcccaacc atcaggggac tttccagcc cattctatcc	6180
cgggaactat ccaaacaatg ccaagtgtgt gtgggacatt gaggtgcaaa acaactaccg	6240
tgtgactgtg atcttcagag atgtccagct tgaagggtgg tgcaactatg attatattga	6300
agttttcgat ggccctacc gcagttcccc tctcattgct cgagtttgtg atggggccag	6360

aggctccttc acttcttct ccaacttcat gtccattcgc ttcattcagtg accacagcat 6420
 cacaaggaga gggttccggg ctgagtacta ctccagtcgc tccaatgaca gcaccaacct 6480
 gctctgtctg ccaaatacaca tgcaagccag tgtgagcagg agctatctcc aatccttggg 6540
 cttttctgcc agtgacctg tcatttccac ctggaatgga tactacgagt gtcggcccca 6600
 gataacgccg aacctgggtga tattcacaat tccctactca ggctgcggca ccttcaagca 6660
 ggcagacaat gacaccatcg actattccaa ctctctcaca gcagctgtct caggtggcat 6720
 catcaagagg aggacagacc tccgtattca cgtcagctgc agaatgcttc agaacacctg 6780
 ggtcgacacc atgtacattg ctaatgacac catccacgtt gctaataaca ccatccaggt 6840
 cgaggaagtc cagtatggca attttgacgt gaacatttcc ttttatactt cctcatcttt 6900
 cttgtatcct gtgaccagcc gcccttacta cgtggacctg aaccaggact tgtacgttca 6960
 ggctgaaatc ctccattctg atgctgtact gacctgttt gtggacacct gcgtggcatc 7020
 accatactcc aatgacttca cgtctttgac ttatgatcta atccggagtg gatgcgtgag 7080
 ggatgacacc tacggaccct actcctcgcc gtctcttcgc attgcccgct tccggttcag 7140
 ggccttccac ttctgaacc gcttcccctc cgtgtacctg cgttgtaaaa tgggtggtgtg 7200
 cagagcgtat gacccctctt cccgctgcta ccgaggctgt gtgttgaggt cgaagaggga 7260
 tgtgggctcc taccaggaaa aggtggacgt cgtcctgggt cccatccagc tgcagacccc 7320
 cccacgccga gaagaggagc ctcggtaggt ggtcgctctc agacccact gtccaccggg 7380
 gcgcagaccc ctgactcggg gacttgggat gttcctcttg gtgtcatatt ccaactcaga 7440
 ttgagcccta cattgtgctg cacctggtca tacggagttg aatcagacct gggtcccgcc 7500
 tcccccaagg ctcatggctc ttggaggacc cgttgacagg cgaggtaag agagttctga 7560
 cctggatggc ccatagacct gacgtccag aatccatgct tctcatctgc aaaatgaaaa 7620
 tgtcaatact tacttcttag cactgttgag agggttactt acataaagga attttggtga 7680
 aactgc 7686

<210> 653
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 653
 ctcttttcgct caggcccggtg gcgccgacag gatgggcaag tgcgtggac ttcgtactgc 60
 taggaagctc cgtagtcacc gacgagacca gaagtggcat gataaacagt ataagaaagc 120
 tcatttggggc acagccctaa aggccaaccc ttttggaggt gcttctcatg caaaaggaat 180
 cgtgctggaa aaagtaggag ttgaagccaa acagccaaat tctgccatta ggaagtgtgt 240

aagggtccag ctgatcaaga atggcaagaa aatcacagcc tttgtaccca atgacgggtg 300
 cttgaacttt attgaggaaa atgatgaagt tctgggttgc ggatttggtc gcaaagggtca 360
 tgctgttggt gatattcctg gagtccgctt taagggttgc aaagtagcca atgtttctct 420
 tttggcccta taaaaaggca agaaggaaag accaagatca taaatattaa tggtgaaaac 480
 actgtagtaa taaattttca tatgcc 506

<210> 654
 <211> 2952
 <212> DNA
 <213> Homo sapiens

<400> 654
 ggcgcgggtcg agtcacgcga gggcctcacc gcttcgttct cccgtccctc cccgcgcctt 60
 ggctcgacta gccaaagtga ggcgggaggcg actcggacct ttccctgcat ttcgttttcgg 120
 ccagtgccgg ggctaccgcg cctggggcct gggatccttg gggcccgta gccactctta 180
 gcggccgggg ctaccgcggc ccgccgtggc cctcatgagg catagctgac caagctgctg 240
 gcagcctcgg gcagcaactc cccaaccgcg agtgagagcc cggagccggc tgcaacttgt 300
 tcgctgccct ctgacctgac ccgggctgca gcgggggagg aggagacggc ggcggcgac 360
 tccccggcgc aagcagcagt ttggcgacga aggagagttg gaagccggga gggggagccg 420
 cggcggcgtg gccgtgcgcg cgccctcccc cgaggagatg gaggaggagg cgatcgccag 480
 cctcccgggg gaagagacgg aggatatgga ctttctgtct gggctggaac tggcggatct 540
 cctggacccc aggcaaccgg actggcacct ggaccccggg cttagctcgc cggggcctct 600
 ctctcgtct ggcgagggt cggatagcgg cggcctgtgg agaggggacg atgacgatga 660
 ggccgcggct gctgaaatgc agcgcttctc tgacctgctg caaaggctgt taaacggtat 720
 cggaggctgc agcagcagca gtgacagtgg cagcgccgaa aagaggcgga gaaagtcccc 780
 aggaggaggc ggcggtggcg gcagcggtaa cgacaacaac caggcggcga caaagagtcc 840
 ccggaaggcg gcggcgggcg ctgcccgcct taatcgactg aagaagaagg agtacgtgat 900
 ggggctggag agtcgagtcc ggggtctggc agccgagaac caggagctgc gggccgagaa 960
 tcgggagctg ggcaaacgcg tacaggcact gcaggaggag agtcgctacc tacgggcagt 1020
 cttagccaac gagactggac tggctcgctt gctgagccgg ctgagcggcg tgggactgcg 1080
 gctgaccacc tcgctcttca gagactcgcc cgccggtgac cacgactacg ctctgccagt 1140
 gggaaagcag aagcaggacc tgctggaaga ggacgactcg gcgggaggag tctgtctcca 1200
 tgtggacaag gataaggtgt cggtggagtt ctgctcggcg tgcgcccgga aggcgtcgtc 1260
 ttctcttaaa atgtagggtc aagtaatctg ctctttatcc gcgtttaccc ctttcaactc 1320

ccttacacca tgtcaaaactt accttagtg gacatcttca ccggacacat ttcagaggag 1380
 agaaaaaaag taatattgaa tcttaaagtg tttagctaaa agcatgaatg tgacacagta 1440
 accaactcct aatgataaca tgtgactatt aaatctctct gacagtttct tttttagggtg 1500
 atttccttcc tgccaggctc cggtgtaggg gttacagaac agtcggtccc gcctcacaac 1560
 ctgtggatac agctgttggg gcagaagaga cgggaccagc tgctggccac atttcctgct 1620
 ttatttttaa aggtagtata agaatgagga aaaagaggta atatcagggc ttctgctggt 1680
 ttttattttt aacatgttca taattaaata gtattttcca gcagtccaaa gatgtaagtt 1740
 atcttacaca taatatgttt tattttgtta tttggttatg aaaatggaat ccttggttctt 1800
 gcacaactgt aaatgttttg ttgctagata atacgatttg agacctgaat tggctcttg 1860
 tttccagtgc atcacagcat attttgtaaa atcatgtact actgcacttg agcatgaatg 1920
 ggtagtagcc aaactcaca attggagtga tgaacctgct tatacctaag ggcaggagca 1980
 agccccac aatgcagctg catgggtttt tagtgcctac tgaattatat atatatatac 2040
 atatatatat atatatataa accaaaagta gttggaaga ttatttgaaa tgactaactt 2100
 tgtgctatct ttatgaaata tgttaaagt agcttttttg aaacagaagc cttgaattga 2160
 aatttaacta atactgaac attttgata ttttcttg tatataattt tgtgcagtac 2220
 caatgacaaa aatagtgtgt cataataaaa ccaggtttgt tgatctttta gttatgggct 2280
 caaagaattt attcatctct aacatgatat tggaaaataa tggatgaaaa taggaaaaat 2340
 gattgttaat gctgactgtg ggtcttaaaa ggttctggaa agcagtaagt tcatttttct 2400
 aaaaactata acattctgtt ggagtatttt cttccttacg tcaatacttt tcctgcatta 2460
 tttgaaattg tgggctgggg agaaacagta gtcaaagctt tctgaattga gatactttga 2520
 aattccaagt gtagattttt agaatgtcat ttataaatg gccgtttttg gaattacttg 2580
 ataagaactt ttgaaaatgg aaggattagt atggcctatt tttaaagctg ctttgtagg 2640
 ttccttatgt tttattaact gtcttttctc agtttccatt tcattttttt ttttctagtt 2700
 ttggtgactt agtgattttg tcatttttta catcaacttc atggcttctg ttttacatgg 2760
 taattgcatg tacttaggat ctatctaata ggggctttta ataaatttg tcatatttat 2820
 gtgtaagcac attttactgt aaatgtttgg gtttctgaat ttaaacagat ctgtttat 2880
 cagtatgtag taaacaatat cttaaagtgt ccgattcact acttggtta taaaaaagtt 2940
 atgattaatg tg 2952

<210> 655
 <211> 2618
 <212> DNA
 <213> Homo sapiens

<400> 655
 atgaagcacc tgaagcgggtg gtgggtcggcc ggcggcgcc tctgcacct caccctcctg 60
 ctgagcttgg cggggctccg cgtagacct gatctttacc tgctgctgcc gccgcccacc 120
 ctgctgcagg acgagctgct gttcctgggc ggcccggcca gctccgcta cgcgctcagc 180
 cccttctcgg cctcgggagg gtgggggccc gcggggccact tgcaccccaa gggccgggag 240
 ctggaccctg ccgcgccgcc cgagggccag ctgctccggg aggtgcgcgc gctcggggtc 300
 cccttcgtcc ctgcaccag cgtggatgca tggctggtgc acagcgtggc tgccgggagc 360
 gcggacgagg cccacgggct gctcggcgcc gccgccgcct cgtccaccgg aggagccggc 420
 gccagcgtgg acggcggcag ccaggctgtg caggggggcg gcggggaccc ccgagcggct 480
 cggagtggcc ccttggaagg cggggaagag gagaaggcac ccgcggaacc gacgggtcag 540
 gtgccggacg ctggcggatg tgcgagcgag gagaatgggg tactaagaga aaagcacgaa 600
 gctgtggatc atagtccca gcatgaggaa aatgaagaaa ggggtgtcagc ccagaaggag 660
 aactcacttc agcagaatga tgatgatgaa aacaaaatag cagagaaacc tgactgggag 720
 gcagaaaaga cactgaatc tagaaatgag agacatctga atgggacaga tacttctttc 780
 tctctggaag acttattcca gttgctttca tcacagcctg aaaattcact ggagggcatc 840
 tcattgggag atattcctct tccaggcagt atcagtgatg gcatgaattc ttcagcacat 900
 tatcatgtaa acttcagcca ggctataagt caggatgtga atcttcatga ggccatcttg 960
 ctttgtccca acaatacatt tagaagagat ccaacagcaa ggacttcaca gtcacaagaa 1020
 ccatttctgc agttaaattc tcataccacc aatcctgagc aaacccttcc tggaactaat 1080
 ttgacaggat ttctttcacc gggtgacaat catatgagga atctaacaag ccaagaccta 1140
 ctgtatgacc ttgacataaa tatatttgat gagataaact taatgtcatt ggccacagaa 1200
 gacaactttg atccaatcga tgtttctcag ctttttgatg aaccagattc tgattctggc 1260
 ctttctttag attcaagtca caataatacc tctgtcatca agtctaattc ctctcactct 1320
 gtgtgtgatg aagggtgctat aggttattgc actgaccatg aatctagttc ccatcatgac 1380
 ttagaagggtg ctgtagggtg ctactacca gaaccagta agctttgtca cttggatcaa 1440
 agtgattctg atttccatgg agatcttaca tttcaacacg tatttcataa ccacacttac 1500
 cacttacagc caactgcacc agaatctact tctgaacctt ttccgtggcc tgggaagtca 1560
 cagaagataa ggagtagata ccttgaagac acagatagaa acttgagccg tgatgaacag 1620
 cgtgctaaag ctttgcatat ccctttttct gtagatgaaa ttgtcggcat gcctgttgat 1680
 tctttcaata gcatgttaag tagatattat ctgacagacc tacaagtctc acttatccgt 1740
 gacatcagac gaagagggaa aaataaagtt gctgcgcaga actgtcgtaa acgcaaattg 1800

gacataatTTt tgaattttaga agatgatgta tgtaacttgc aagcaaagaa ggaaactcTTt 1860
 aagagagagc aagcacaatg taacaaagct attaacataa tgaaacagaa actgcatgac 1920
 ctttatcatg atatTTTTtag tagattaaga gatgaccaag gtaggccagt caatcccaac 1980
 cactatgctc tccagtgtac ccatgatgga agtatcTTga tagtacccaa agaactggtg 2040
 gcctcaggcc acaaaaagga aacccaaaag ggaaagagaa agtgagaaga aactgaagat 2100
 ggactcTatt atgtgaagta gtaatgttca gaaactgatt atttggatca gaaaccattg 2160
 aaactgcttc aagaattgta tctTTtaagta ctgctacttg aataactcag ttaacgctgt 2220
 tttgaagcTTt acatggacaa atgtTTtagga cttcaagatc acacttgtgg gcaatctggg 2280
 ggagccacaa cttttcatga agtgcattgt atacaaaatt catagtTatg tccaaagaat 2340
 aggttaacat gaaaaccag taagactttc catcTTggca gccatccttt ttaagagtaa 2400
 gttggTTact tcaaaaagag caaacactgg ggatcaaatt attTTaagag gtatttcagt 2460
 tttaaatgca aaatagcctt attttcattt agtttgTtag cactatagtg agcttttcaa 2520
 acactatTTt aatctTTata tTTaacttat aaattttgct ttctatggaa ataaattttg 2580
 tatttgtatt aaaaattaac ttttcccttt tatacaga 2618

<210> 656
 <211> 2128
 <212> DNA
 <213> Homo sapiens

<400> 656
 gggccggcag gggcggTgcg cgggaagggg ccccggaacc ggaggTcgcg gagagctggg 60
 cagtgtTggc cgctggcgga gcgctggggc agcatgaagt gcctggTcac gggcggcaac 120
 gtgaaggTgc tcggcaaggc cgtccactcc ctgtcccgca tcggggacga gctctacctg 180
 gaaccctTgg aggacgggct ctccctccgg acggtgaact cctcccgctc tgcttatgcc 240
 tgctttctct ttgccccgct cttcttccag caataccagg cagccacccc tggTcaggac 300
 ctgctgcgct gtaagatcct gatgaagtct ttctgtctg tcttccgctc actggcgatg 360
 ctggagaaga cggtggaaaa atgctgcac tccctgaatg gccggagcag ccgcctggTg 420
 gtccagctgc attgcaagtt cggggTgcgg aagactcaca acctgtcctt ccaggactgt 480
 gagtccctgc aggccgtctt cgaccagcc tcgtgcccc acctgtccg cgccccagca 540
 cgggttctgg gggaggctgt tctgcccttc tctcctgcac tggctgaagt gacgctgggc 600
 attggccgtg gccgcagggt catcctgcgc agctaccacg aggaggaggc agacagcact 660
 gccaaagcca tggTgactga gatgtgcctt ggagaggagg atttccagca gctgcaggcc 720
 caggaagggg tggccatcac tttctgcctc aaggaattcc gggggctcct gagctttgca 780

```

gagtcagcaa acttgaatct tagcattcat tttgatgctc caggcaggcc cgccatcttc      840
accatcaagg actcttttget ggacggccac tttgtcttgg ccacactctc agacaccgac      900
tcgcactccc aggacctggg ctccccagag cgtcaccagc cagtgcctca gctccaggct      960
cacagcacac cccacccgga cgactttgcc aatgacgaca ttgactctta catgatcgcc     1020
atggaaacca ctataggcaa tgagggctcg cgggtgctgc cctccatttc cctttcacct     1080
ggcccccagc cccccaagag ccccggtccc cactccgagg aggaagatga ggctgagccc     1140
agtacagtgc ctgggactcc cccaccaag aagttccgct cactgttctt cggctccatc     1200
ctggccccctg tacgtctccc ccaggggccc agccctgtgc tggcggaaga cagtgagggt     1260
gaaggctgaa ccaagaacct gaagcctgta cccagaggcc ttggactaga cgaagcccca     1320
gccagtggca gaactgggtc tctcagccct ggggatcaga aagggtgggtc tgctggagct     1380
gagctgtttc actgcctctc gcaggcccca gctggctgtc actgtaaagc tgtcccacag     1440
cggctcgggccc tgggccgtta tctccccaca acccccagcc aatcaggact ttccagactt     1500
ggccctgaac tactgacgtt cctacctctt atttctcatt gagcctcagg ctatactcca     1560
gctggccaag gctggaaacc tgtctccctc aggtcacct tcctaaggaa aatgtcatag     1620
taggtgctgc tggccccctg tgatccagct tctctgcaa tcatgacctg ttccttctg      1680
aagtcctggg catgcatctg ggacccccgt ggagctgaca agttttcctt gctttcctga     1740
tactcttttg cgctgacttg gaattctaag agccttggac ccgagtgtgt ggctaggggt     1800
gccctggctg gggcccggtg ccgagactcc caagcggctc tgtgcagaag agctgccagg     1860
cagtgtctta gatgtgagac ggaggccatg gcgagaatcc agctttgacc tttattcaag     1920
agaccagatg ggttgcccca ggatccggct gccagccctg aggccaagca cggctggaga     1980
cccacgacct ggcctgccgt tgccctgagc tgcagcctcg gccccaggat cctgctcaca     2040
gtcaccgcag gtgcaggcag gaagcagccc tgggggactg gacgctgcta ttgattcatt     2100
aaaaaaagaa aagaaaaata caaaaaaa      2128

```

<210> 657
<211> 500
<212> DNA
<213> Homo sapiens

```

<400> 657
tttccaattc acttcaattt tttatttcag caagcagcag tgggcctgtg aagttttcaa      60
agtgccccag gcatttcttt ctggactcaa tatattaagt caaagaaagt agcagggtctt     120
agggtgccaat gaagtggcat taagctattt ctctttgcaa ggcctccttc tctgtgaagc     180
aatcccagc cactcactca cttaaagcaa tgcagaacgt ctggtcagca aacagaaaaa     240

```


ggataaaaat tcttcagttc ctcacctgta ttattaccat tccctccccc agggaaaggc 300
 aggctagtag aaattctaca gaggtcagta aacatagggtg gttatttgca aaagtagtta 360
 gtacttttct caggctataa aagcaatggc atttgggggt cacaatgcta accatacact 420
 gccccctctg atgactttta ttccttgagg ttcgctcatt ggatgccccca ctctatagcc 480
 agatcgcac acacagcctc 500

<210> 658

<211> 5458

<212> DNA

<213> Homo sapiens

<400> 658

gccccagggc ctggagaggt ctgaagaaac ctgggagcca gcagcccggtg gctccactct 60
 gggttctgaa agcccattec ctgctctgcg gctcctccca cccacctct tctcagcctt 120
 gcagctcaag ggttgatctc aggagtccag gaccaggag agggagaagaat ctgaggaaca 180
 cagaacagtg agcgttgccc acaccccatc tcccgtcacc acatctcccc tcaccctcac 240
 cctccctgcc tggccctgga ccccatccca ggacctccct atcagctgac ttcttccagt 300
 gtcttgaggg cccctctggg ctccctccct cctgggcttt tcttaccact cccctctat 360
 cggcgtctat ctgtagggtgc cctgggattt ataaaactgg gttccgaatg ctgaataaga 420
 gacggtaaga gccaaggcaa aggacagcac tgttctctgc ctgcctgata ccctcaccac 480
 ctgggaacat cccccagaca ccctcttaac tccgggacag agatggctgg cggagcctgg 540
 ggccgcctgg cctgttactt ggagttcctg aagaaggagg agctgaagga gttccagctt 600
 ctgctcgcca ataaagcgca ctccaggagc tcttcgggtg agacaccgc tcagccagag 660
 aagacgagtg gcatggaggt ggccctcgta ctgggtggctc agtatgggga gcagcgggcc 720
 tgggacctag ccctccatac ctgggagcag atggggctga ggtcactgtg cgccaagcc 780
 caggaagggg caggccactc tccctcatc ccctacagcc caagtgaacc ccacctgggg 840
 tctcccagcc aaccacctc caccgcagt ctaatgcct ggatccatga attgccggcg 900
 ggggtgcacc agggctcaga gagaagggtt ttgagacagc tgcctgacac atctggacgc 960
 cgctggagag aaatctctgc ctactcctc taccaagctc ttccaagctc cccagaccat 1020
 gagtctccaa gccaggagtc acccaacgcc cccacatcca cagcagtgtg ggggagctgg 1080
 ggatccccac ctgagcccag cctagcacc agagagcagg aggtccttg gacccaatgg 1140
 cctctggatg aaacgtcagg aatttactac acagaaatca gagaaagaga gagagagaaa 1200
 tcagagaaag gcaggccccc atgggcagcg gtggtaggaa cgccccaca ggcgcacacc 1260
 agcctacagc cccaccacca cccatgggag ccttctgtga gagagagcct ctgttcaca 1320

tggccctgga	aaaatgagga	ttttaaccaa	aaattcacac	agctgctact	tctacaaaga	1380
cctcacccca	gaagccaaga	tcccctggtc	aagagaagct	ggcctgatta	tgtggaggag	1440
aatcgaggac	atttaattga	gatcagagac	ttat ttggcc	caggcctgga	taccaagaa	1500
cctcgcatag	tcatactgca	gggggctgct	ggaattggga	agtcaacact	ggccaggcag	1560
gtgaaggaag	cctggggggag	aggccagctg	tatggggacc	gcttccagca	tgtcttctac	1620
ttcagctgca	gagagctggc	ccagtccaag	gtggtgagtc	tcgctgagct	catcggaaaa	1680
gatgggacag	ccactccggc	tcccattaga	cagatcctgt	ctaggccaga	gcggctgctc	1740
ttcatcctcg	atgggtgtaga	tgagccagga	tgggtcttgc	aggagccgag	ttctgagctc	1800
tgtctgcact	ggagccagcc	acagccggcg	gatgcactgc	tgggcagttt	gctggggaaa	1860
actatacttc	ccgaggcatc	cttcctgac	acggctcggg	ccacagctct	gcagaacctc	1920
attccttctt	tggagcaggc	acgttgggta	gaggtcctgg	ggttctctga	gtccagcagg	1980
aaggaatatt	tctacagata	tttcacagat	gaaaggcaag	caattagagc	ctttaggttg	2040
gtcaaatcaa	acaaagagct	ctgggccctg	tgtcttgtgc	cctgggtgtc	ctggctggcc	2100
tgcacttgcc	tgatgcagca	gatgaagcgg	aaggaaaaac	tcacactgac	ttccaagacc	2160
accacaaccc	tctgtctaca	ttaccttgcc	caggctctcc	aagctcagcc	attgggaccc	2220
cagctcagag	acctctgctc	tctggctgct	gagggcatct	ggcaaaaaaa	gacccttttc	2280
agtccagatg	acctcaggaa	gcatgggtta	gatggggcca	tcactctccac	cttcttgaag	2340
atgggtattc	ttcaagagca	ccccatccct	ctgagctaca	gcttcattca	cctctgtttc	2400
caagagtctt	ttgcagcaat	gtcctatgtc	ttggaggatg	agaaggggag	aggtaaacad	2460
tctaattgca	tcatagattt	ggaaaagacg	ctagaagcat	atggaatata	tggcctgttt	2520
ggggcatcaa	ccacacgttt	cctattgggc	ctgttaagtg	atgaggggga	gagagagatg	2580
gagaacatct	ttcactgccg	gctgtctcag	gggaggaacc	tgatgcagtg	ggtcccgtcc	2640
ctgcagctgc	tgctgcagcc	acactctctg	gagtcctctc	actgcttgta	cgagactcgg	2700
aacaaaacgt	tcctgacaca	agtgatggcc	catttcgaag	aaatgggcat	gtgtgtagaa	2760
acagacatgg	agctcttagt	gtgcactttc	tgcattaaat	tcagccgcca	cgtgaagaag	2820
cttcagctga	ttgagggcag	gcagcacaga	tcaacatgga	gccccaccat	ggtagtcttg	2880
ttcaggtggg	tcccagtcac	agatgcctat	tggcagattc	tcttctccgt	cctcaaggctc	2940
accagaaacc	tgaaggagct	ggacctaaat	ggaaactcgc	tgagccactc	tgagtggaag	3000
agtctttgta	agaccctgag	acgccctcgc	tgccctcctg	agaccctcgc	gttggctggc	3060
tgtggcctca	cagctgagga	ctgcaaggac	cttgcccttg	ggctgagagc	caaccagacc	3120

ctgaccgagc	tggacctgag	cttcaatgtg	ctcacggatg	ctggagccaa	acacctttgc	3180
cagagactga	gacagccgag	ctgcaagcta	cagcgactgc	agctggtcag	ctgtggcctc	3240
acgtctgact	gctgccagga	cctggcctct	gtgcttagtg	ccagccccag	cctgaaggag	3300
ctagacctgc	agcagaacaa	cctggatgac	gttggcgtgc	gactgctctg	tgaggggctc	3360
aggcatcctg	cctgcaaact	catacgctg	gggctggacc	agacaactct	gagtgatgag	3420
atgaggcagg	aactgagggc	cctggagcag	gagaaacctc	agctgctcat	cttcagcaga	3480
cggaaaccaa	gtgtgatgac	ccctactgag	ggcctggata	cgggagagat	gagtaatagc	3540
acatcctcac	tcaagcggca	gagactcgga	tcagagaggg	cggcttccca	tgttgctcag	3600
gctaattctca	aactcctgga	cgtgagcaag	atcttcccaa	ttgctgagat	tgagaggaa	3660
agctccccag	aggtagtacc	ggtggaactc	ttgtgctg	cttctcctgc	ctctcaaggg	3720
gacctgcata	cgaagccttt	ggggactgac	gatgacttct	ggggccccac	ggggcctgtg	3780
gctactgagg	tagttgacaa	agaaaagaac	ttgtaccgag	ttcacttccc	tgtagctggc	3840
tcctaccgct	ggcccaacac	gggtctctgc	tttgtgatga	gagaagcggg	gaccgttgag	3900
attgaattct	gtgtgtggga	ccagttcctg	ggtgagatca	accacagca	cagctggatg	3960
gtggcagggc	ctctgctgga	catcaaggct	gagcctggag	ctgtggaagc	tgtgcacctc	4020
cctcactttg	tggtctctca	agggggccat	gtggacacat	ccctgttcca	aatggccccac	4080
tttaaagagg	aggggatgct	cctggagaag	ccagccaggg	tgagctgca	tcacatagtt	4140
ctggaaaacc	ccagcttctc	ccccttggga	gtcctcctga	aaatgatcca	taatgccctg	4200
cgtttcattc	ccgtcacctc	tgtggtgttg	ctttaccacc	gcgtccatcc	tgaggaagtc	4260
accttccacc	tctacctgat	cccaagtgc	tgctccattc	ggaaggaact	ggagctctgc	4320
tatcgaagcc	ctggagaaga	ccagctgttc	tcggagttct	acgttggcca	cttgggatca	4380
gggatcaggc	tgcaagtga	agacaagaaa	gatgagactc	tggtgtggga	ggccttggtg	4440
aaaccaggag	atctcatgcc	tgcaactact	ctgatccctc	cagcccgc	agccgtacct	4500
tcacctctgg	atgccccgca	gttgctgcac	tttgtggacc	agtatcgaga	gcagctgata	4560
gcccagtgat	catcggtgga	ggttgctctg	gacaaactgc	atggacaggt	gctgagccag	4620
gagcagtacg	agaggggtgct	ggctgagaac	acgaggccca	gccagatgcg	gaagctgttc	4680
agcttgagcc	agtcctggga	ccggaagtgc	aaagatggac	tctaccaagc	cctgaaggag	4740
acctatcctc	acctcattat	ggaactctgg	gagaagggca	gcaaaaaggg	actcctgccca	4800
ctcagcagct	gaagtatcaa	caccagccct	tgacccttga	gtcctggctt	tggtgaccc	4860
ttctttgggt	ctcagtttct	ttctctgcaa	acaagttgcc	atctggtttg	ccttccagca	4920
ctaaagtaat	ggaactttga	tgatgccttt	gctgggcatt	atgtgtccat	gccagggatg	4980

```

ccacaggggg cccaggtcca ggtggcctaa cagcatctca gggaatgtcc atctggagct 5040
ggcaagaccc ctgcagacct catagagcct catctggtgg ccacagcagc caagcctaga 5100
gccctccgga tcccatccag gcgcaaagag gaataggagg gacatggaac catttgccctc 5160
tggtgtgtgc acaggggtgag ccccaaaatt ggggttcagc gtgggaggcc acgtggattc 5220
ttggctttgt acaggaagat ctacaagagc aagccaacag agtaaagtgg aaggaagttt 5280
attcagaaaa taaaggagta tcacagctct tttagaattt gtctagcagg ctttccagtt 5340
tttaccagaa aaccctata aattaaaaat tttttactta aatttaagaa ttaaaaaaat 5400
acaaaaaaga aaaaatgaaa ataaaggaat aagaagttac ctactccaaa aaaaaaaa 5458

```

```

<210> 659
<211> 1373
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (241)..(241)
<223> n is a, c, g, t or u

```

```

<400> 659
cttttttttt ttcgtctggg ctgccaacat gccatccaga ctgaggaaga cccggaaact 60
tagggggccac gtgagccacg gccacggcgc ataggcaagc accggaagca ccccggcggc 120
cgcggtaatg ctggtggtct gcatcaccac cggatcaact tcgacaaata ccaccaggc 180
tacttgggga aagtgggtat gaagcattac cacttaaaga ggaaccagag cttctgcccc 240
natgtcaacc ttgacaaatg tgtgggactt gggtcagtga acagacacgg gtgaatgctg 300
ctaaaaacaa gactggggct gctcccatca ttgatgtggt gcgatcgggc tactataaag 360
ttctgggaaa gggaaagctc ccaaagcagc ctgtcatcgt gaaggccaaa ttcttcagca 420
gaagagctga ggagaagatt acgagtgtgg ggggggcctg tgtcctggtg gcttgaagcc 480
acatggaggg agttcataaa tggatataca aaaaaaaaga aaaaaaaaaa attgtttggg 540
gcggggccca gaaaattcaa accacggtgc gggcgggcca gagatggcaa cgggccgagg 600
gcgcagagac cgggacgaca ggggggttcc aaaaaaaagc gcgggccggg tgaagaacag 660
ggtccgccag ggtcgcaggc acggatcatc ccccgccgcg gccacacac gacgacacag 720
acaaacgaag agacaagacc catctgatgt cctcagtctc aggcgacgac gtgccaggag 780
aggcgcgag aaacactgca aaaaactgac accgcagcag gccagccac ccacaaggca 840
aaagtgccac cgacgcgcgc aaccggagcg ccaaagccga gccaaagacga gaagaaccga 900
cacgagcagc acaagggcgg cgacgcggaa ggagacagga gccacggcag acggaccaga 960

```

cacgatgcaa cacacgcaaa gacgcaccca agacagaacg gacagacaca aacaaggaga	1020
aagcaggaga actaccgacc gcgacgcaag agacacagaa aacagagggg aacgaggcag	1080
agaaaagaga acgagcgcgga acgcgacgga tcaaggcgag cagaccagac acagaacagc	1140
ggggacacag cagaagaacg aagaacaaca gagacgcgac agaaagacaa agaaccgcag	1200
agcagacacc aggccaagag caagagggga gaacacacag cgaggggaacg agcgagagag	1260
agatgagaaa tacagacatg aaggaagacg agcaaggaca cagcgagagt ccaggaacag	1320
gcagacaagc gagaaagagg agaagcgcaa cacgaacaga aaaccagagc gag	1373

<210> 660
 <211> 690
 <212> DNA
 <213> Homo sapiens

<400> 660	
tgcacaagca gaatcttcag aacagggttct ccttccccag tcaccagttg ctcgagttag	60
aattgtctgc aatggccgcc ctgcagaaat ctgtgagctc tttccttatg gggaccctgg	120
ccaccagctg cctccttctc ttggccctct tggtagaggg aggagcagct gcgccccatca	180
gctcccactg caggcttgac aagtccaact tccagcagcc ctatatcacc aaccgcacct	240
tcattgctggc taaggaggct agcttggtgctg ataacaacac agacgttcgt ctcattgggg	300
agaaactggt ccacggagtc agtatgagtg agcgtgcta tctgatgaag cagggtgctga	360
acttcaccct tgaagaagtg ctgttccctc aatctgatag gttccagcct tatatgcagg	420
aggtgggtgcc cttcctggcc aggctcagca acaggctaag cacatgtcat attgaagggtg	480
atgacctgca tatccagagg aatgtgcaaa agctgaagga cacagtgaaa aagcttggag	540
agagtggaga gatcaaagca attggagaac tggatttgct gtttatgtct ctgagaaatg	600
cctgcatttg accagagcaa agctgaaaaa tgaataacta accccctttc cctgctagaa	660
ataacaatta gatgccccaa agcgattttt	690

<210> 661
 <211> 1189
 <212> DNA
 <213> Homo sapiens

<400> 661	
gcgcatgcgc gggggccata ttagcagcgg ttattcggtg agcggtggtg gtttattctt	60
ccgtggagtt aagggtccg tggacatctc aggtcttcag ggtcttccat ctggaactat	120
ataaagttca gaaaacatgt ctcgaagata tgactccagg accactatat tttctccaga	180
aggtcgctta taccaagttg aatatgccat ggaagctatt ggacatgcag gcacctgttt	240

```

gggaatttta gcaaagatg gtgttttgct tgcagcagag agacgcaaca tccacaagct    300
tcttgatgaa gtcttttttt ctgaaaaaat ttataaaactc aatgaggaca tggcttgacg    360
tgtggcagggc ataacttctg atgctaattgt tctgactaat gaactaaggc tcattgctca    420
aaggatattta ttacagtatc aggagccaat accttgtgag cagttgggta cagcgctgtg    480
tgatatcaaa caagcttata cacaatttgg aggaaaacgt ccctttgggtg tttcattgct    540
gtacattggc tgggataagc actatggctt tcagctctat cagagtgacc ctagtgga    600
ttacggggga tggaaggcca catgcattgg aaataatagc gctgcagctg tgtcaatggt    660
gaaacaagac tataaagaag gagaaatgac cttgaagtca gcacttgctt tagctatcaa    720
agtactaaat aagaccatgg atgttagtaa actctctgct gaaaaagtgg aaattgcaac    780
actaacaaga gagaatggaa agacagtaat cagagttctc aaacaaaaag aagtggagca    840
gttgatcaaa aaacatgagg aagaagaagc caaagctgag cgtgagaaga aagaaaaaga    900
acagaaagaa aaggataaat agaatacagag attttattac tcatttgggg caccatttca    960
gtgtaaaagc agtcctactc ttccacacta ggaaggcttt acttttttta actgggtgcag   1020
tgggaaaata ggacattaca tactgaattg ggtccttgctc atttctgtcc aattgaatac   1080
tttattgtaa cgatgatggg tacccttcat ggacgtctta atcttccaca cacatcccct   1140
ttttttggaa taaaatttgg aaaatggaaa tgaaaaaaaa aaaaaaaaaa   1189

```

<210> 662
 <211> 1890
 <212> DNA
 <213> Homo sapiens

```

<400> 662
cccgcgagcg gacgcggcag cgcctctgtc tcgctttttc ttatttttcc cccctttccc    60
ctttcttttt ttttttttct tttcttttct cccctcccc cctttcacca tttcccctcg   120
gaggcgcttt ccccgggcag gggcagagcc ggtctcacc cccgcctctc cccggccccc   180
gccgccttat ggcgagaggg agccccctcc caaccgggc tcgagcggcg gcggcctcag   240
gccgggggtc atcatggaac taattcgctg accgaccag cggccgcagc cgtgcgtccc   300
gctcgagcgc cagcgcggcg gccgcgccc cccgatccgc tcccccttc tccctctca   360
gttgggcgag tcgtcccgcg cgcaccgct cgcgcgcct atgagaatga ggtggtaacg   420
ggcccccgga tgaccccgcg tcaccactgt gaggcctaca gctctgccg ggaggaggag   480
gaggaggaag aggaggagaa ggtagctaca gcaagctggg tagcaggcag atccaaagga   540
tatcatgaag tttccagggc ctttgaaaa ccagagattg tctttcctgt tggaaaaggc   600
aatcactagg gaagcacaga tgtggaaagt gaatgtgcgg aaaatgcctt caaatcagaa   660

```

tgttttctcca tcccagagag atgaagtaat tcaatggctg gccaaactca agtaccaatt	720
caaccttttac ccagaaacat ttgctctggc tagcagtctt ttggataggt ttttagctac	780
cgtaaaggct catccaaaat acttgagttg tattgcaatc agctgttttt tcctagctgc	840
caagactggt gaggaagatg agagaattcc agtactaaag gtattggcaa gagacagttt	900
ctgtggatgt tcctcatctg aaattttgag aatggagaga attattctgg ataagttgaa	960
ttgggatctt cacacagcca caccattgga ttttcttcat attttccatg ccattgcagt	1020
gtcaactagg cctcagttac ttttcagttt gcccaaattg agcccatctc aacatttggt	1080
agtccttacc aagcaactac ttcactgtat ggcttgcaac caacttctgc aattcagagg	1140
atccatgctt gctctggcca tggttagtct ggaaatggag aaactcattc ctgattggct	1200
ttctcttaca attgaactgc ttcagaaagc acagatggat agtcccagt tgatccattg	1260
tggggagctt gtggcacatc acctttctac tctgcagtct tccctgcctc tgaattccgt	1320
ttatgtctac cgtccctca agcacaccct ggtgacctgt gacaaaggag tgttcagatt	1380
acatccctcc tctgtcccag gccagactt ctccaaggac aacagcaagc cagaagtgcc	1440
agtcagaggc acagcagcct ttaccatca tctcccagct gccagtgggt gcaagcagac	1500
ctctactaaa cgcaaagtag aggaaatgga agtggatgac ttctatgatg gaatcaaagc	1560
gctctataat gaagataatg tctcagaaaa tgtgggttct gtgtgtggca ctgatttacc	1620
aagacaagag ggacatgctt ccccttgctc acctttgcag cctgtttctg tcatgtagtt	1680
tcaacaagtg ctacctttga gtgtaacta aggtagacta ctttgggaat gagaacatgc	1740
aaaatcagga aaggctgtag aaggaaatat accttaacag gctgatttgg agtgagccag	1800
aaaaaaaaa taaactctc attatttgtg tggctaatta taattcagcg ttatttaagc	1860
acataaagac caaaaaaaaaa aaaaaaaaaa	1890

<210> 663

<211> 4050

<212> DNA

<213> Homo sapiens

<400> 663

cttgcaatcc aggttttcct tggaagtggc tgtaacatgt atgaaaagaa agaaaggagg	60
accaagagat gaaagagggc tgcacgcgtg ggggcccag tggtagggcg ggacagtcgt	120
cttggttacag ggggtgctggc ctccctggc gcctgcccct gtgggccccg cccgagaacc	180
tccctgcgcc agggcagggc ttactcatcc cggcgagggt atcccatgcg cgagggcggg	240
cgcaagggcg gccagagaac ccagcaatcc gagtatgcgg catcagccct tcccaccagg	300
cacttccttc cttttcccga acgtccaggg agggagggcc gggcacttat aaactcgagc	360

cctggccgat	ccgcatgtca	gaggctgcct	cgcaggggct	gcgcgcacgg	caagaagtgt	420
ctgggctggg	acggacagga	gaggctgtcg	ccatcggcgt	cctgtgcccc	tctgctccgg	480
cacggccctg	tcgcagtgcc	cgcgctttcc	ccggcgcctg	cacgcggcgc	gcctgggtaa	540
catgcttggg	gtcctggtec	ttggcgcgct	ggccctggcc	ggcctggggg	tccccgcacc	600
cgcagagccg	cagccgggtg	gcagccagtg	cgctcgagcac	gactgcttcg	cgctctaccc	660
gggccccgcg	accttctca	atgccagtca	gatctgcgac	ggactgcggg	gccaccta	720
gacagtgcgc	tctcgggtg	ctgccgatgt	catttccttg	ctactgaacg	gcgacggcgg	780
cgttggcgcg	cggcgcctct	ggatcggcct	gcagctgcca	cccggctgcg	gcgaccccaa	840
gcgcctcggg	cccctgcgcg	gcttccagt	ggttacggga	gacaacaaca	ccagctatag	900
caggtgggca	cggctcgacc	tcaatggggc	tccccctctg	ggcccgttgt	gcgtcgctgt	960
ctccgctgct	gaggccactg	tgcccagcga	gccgatctgg	gaggagcagc	agtgcgaagt	1020
gaaggccgat	ggcttctct	gcgagttcca	cttcccagcc	acctgcaggc	cactggctgt	1080
ggagcccggc	gccgcggctg	ccgccgtctc	gatcacctac	ggcaccctgt	tcgcggcccc	1140
cggagcggac	ttccaggcgc	tgccgggtgg	cagctccgcc	gcggtggctc	ccctcgctt	1200
acagctaata	tgacccgcgc	cgcggcgagc	ggtccagggg	caactgggcca	gggagggcgc	1260
gggcgcttgg	gactgcagcg	tggagaacgg	cggctgcgag	cacgcgtgca	atgcgatccc	1320
tggggctccc	cgtgcccagt	gcccagccgg	cgcgcctctg	caggcagacg	ggcgctcctg	1380
caccgcatcc	gcgacgcagt	cctgcaacga	cctctgcgag	caactctgcg	ttcccaaccc	1440
cgaccagccg	ggctcctact	cgtgcatgtg	cgagaccggc	taccggctgg	cggccgacca	1500
acaccgggtg	gaggacgtgg	atgactgcat	actggagccc	agtccgtgtc	cgcagcgctg	1560
tgtcaacaca	caggggtggc	tcgagtgcc	ctgctaccct	aactacgacc	tggtggacgg	1620
cgagtgtgtg	gagcccgtgg	acccgtgctt	cagagccaac	tgcgagtacc	agtgccagcc	1680
cctgaaccaa	actagctacc	tctgcgtctg	cgcggagggc	ttcgcgccca	ttccccacga	1740
gcccgcacag	tgccagatgt	tttgcaacca	gactgcctgt	ccagccgact	gcgaccccaa	1800
caccagggct	agctgtgagt	gccctgaagg	ctacatcctg	gacgacgggt	tcactctgcac	1860
ggacatcgac	gagtgcgaaa	acggcggctt	ctgctccggg	gtgtgccaca	acctccccgg	1920
taccttcgag	tgcatctgcg	ggcccgaact	ggcccttgcc	cgcacatttg	gcaccgactg	1980
tgactccggc	aaggtggacg	gtggcgacag	cggctctggc	gagccccgcg	ccagcccgcac	2040
gcccggctcc	accttgactc	ctccggccgt	ggggctcgtg	cattcggggt	tgctcatagg	2100
catctccatc	gcgagcctgt	gcctgggtgg	ggcgcttttg	gcgctcctct	gccacctgcg	2160
caagaagcag	ggcgccgcca	gggccaagat	ggagtacaag	tgcgcgggcc	cttccaagga	2220

ggtagtgctg cagcacgtgc ggaccgagcg gacgccgcag agactctgag cggcctccgt	2280
ccaggagcct ggctccgtcc aggagctgtg cctcctcacc cccagctttg ctaccaaagc	2340
accttagctg gcattacagc tggagaagac cctccccgca cccccaagc tgttttcttc	2400
tattccatgg ctaactggcg aggggggtgat tagagggagg agaattgagcc tcggcctctt	2460
ccgtgacgtc actggaccac tgggcaatga tggcaatttt gtaacgaaga cacagactgc	2520
gatttgcccc aggtcctcac taccgggctc aggaggggtga gcgttattgg tcggcagcct	2580
tctgggcaga ccttgacctc gtgggctagg gatgactaaa atatttattt tttttaagta	2640
tttaggtttt tgtttgtttc ctttgttctt acctgtatgt ctccagtatc cactttgcac	2700
agctctccgg tctctctctc tctacaaact cccacttgct atgtgacagg taaactatct	2760
tgggtgaattt ttttttcccta gccctctcac atttatgaag caagccccac ttattcccca	2820
ttcttccctag ttttctctc ccaggaactg ggccaactca cctgagtcac cctacctgtg	2880
cctgacccta cttcttttgc tcatctagct gtctgctcag acagaacccc tacatgaaac	2940
agaaacaaaa aactaaaaa taaaaatggc catttgcttt ttcaccagat ttgctaattt	3000
atcctgaaat ttcagattcc cagagcaaaa taattttaaa caaaggggtg agatgtaaaa	3060
ggattataat tgatgttgct ggactgtcat agaaattaca ccaaagagg tatttatctt	3120
tacttttaaa cagtgagcct gaattttgtt gctgttttga tttgtactga aaaatggtaa	3180
ttgttgctaa tcttcttatg caatttcctt ttttgttatt attacttatt tttgacagtg	3240
ttgaaaatgt tcagaagggt gctctagatt gagagaagag acaaacacct cccaggagac	3300
agttcaagaa agcttcaaac tgcattgatt atgccaatta gcaattgact gtcactgttc	3360
cttgtcactg gtagacaaaa ataaaaccag ctctactggc cttgtggaat tgggagcttg	3420
ggaatggatc ctggaggatg cccaattagg gcctagcctt aatcagggtc tcagagaatt	3480
tctaccattt cagagaggcc ttttggaatg tggccctga acaagaattg gaagctgccc	3540
tgcccatggg agctgggttag aaatgcagaa tcctaggctc caccocatcc agttcatgag	3600
aatctatatt taacaagatc tgcagggggg gtgtctgtc agtaatttga ggacaaccat	3660
tccagactgc ttccaatttt ctggaataca tgaaatatag atcagttata agtagcaggc	3720
caagtcaggc ccttattttc aagaaactga ggaattttct ttgtgtagct ttgctctttg	3780
gtagaaaagg ctaggtacac agctctagac actgccacac agggctctgca aggtcttttg	3840
ttcagctaag ctaggaatga aatcctgctt cagtgtatgg aaataaatgt atcatagaaa	3900
tgtaactttt gtaagacaaa ggttttcctc ttctattttg taaactcaaa atatttgtac	3960
atagttattt atttattgga gataatctag aacacaggca aaatccttgc ttatgacatc	4020

acttgtacaa aataaacaaa taacaatgtg

4050

<210> 664

<211> 1258

<212> DNA

<213> Homo sapiens

<400> 664

ccgggctcta cccagagcaa gaccctgatg gctgcgggtgt ttctggtaac gctttatgaa 60

tactcgccgc ttttctacat cgcggtgggc tttacctgct tcatcgtgac caccggcctg 120

gtattgggat ggtttggttg ggatgttcca gtaattctga gaaattcaga agagaccag 180

ttcagcacia gagttttcaa aaagcaaatg agacaagtca agaatccttt tggcttagag 240

atcactaatc catcttcagc ttcaattaca actggcataa ccttgacaac agattgcctt 300

gaagatagcc tccttacatg ctactggggg tgcagtgttc aaaaattata tgaagctctg 360

cagaagcatg tttattgctt cagaataagc actccccaag cattagaaga tgctctgtat 420

agtgaatatc tctatcagga acagtatttt attaaaaagg atagcaaaga agaaatatat 480

tgccagttac caagagatac taaaattgaa gactttggta cagtaccag atctcgctat 540

ccattggtag cgctattgac cttagctgat gaggatgacc gggaaattta tgatattatt 600

tccatggtgt cagtgattca tttcctgat aggacttata aactatcctg cagaatattg 660

tatcaatatt tactcttggc tcaagggtcaa tttcatgac ttaagcaact tttcatgtct 720

gcaaataata atttcactcc ctccaacaat tcctcttcag aagaaaaaaaa cacagacaga 780

agtttggttg aaaagggtggg actctctgaa agtgaagttg agccatcgga agagaacagc 840

aaggactgtg ttgtttgcca gaatgggact gtgaactggg tactcttacc atgcagacac 900

acatgcctgt gtgatggctg tgtgaagtat tttcagcagt gcccaatgtg caggcagttt 960

gttcaggaat cttttgcact ttgcagtcaa aaagagcaag ataaagacaa accgaagact 1020

ctttgaagac atcgtaacac tgaaaagtac actttctact aaagatgcag aaattgatga 1080

tcttggaatt catcataaca tggaatctac agtactgacc atcaatgaaa attatatattt 1140

aacttcatat ttgtatggta cttggatgat aaaaattaat tttcctttc tgcttagtga 1200

atgaatactg gaatccatct gtgttgatac aataaaaatt cattcaactc ttgaaaag 1258

<210> 665

<211> 21

<212> DNA

<213> Homo sapiens

<400> 665

gtaaccggtt gaacccatt c

21

<210> 666
<211> 20
<212> DNA
<213> Homo sapiens

<400> 666
cacaatgtgg ccgaggactt 20

<210> 667
<211> 20
<212> DNA
<213> Homo sapiens

<400> 667
cacccgatctc aggggttctg 20

<210> 668
<211> 23
<212> DNA
<213> Homo sapiens

<400> 668
tccaacatca acatcttggt cag 23

<210> 669
<211> 21
<212> DNA
<213> Homo sapiens

<400> 669
ccaaaagaca ccagccactc a 21

<210> 670
<211> 20
<212> DNA
<213> Homo sapiens

<400> 670
ccctccctcc atcgttttct 20

<210> 671
<211> 21
<212> DNA
<213> Homo sapiens

<400> 671
tggggtcaag actgacaatc c 21

<210> 672
<211> 23
<212> DNA
<213> Homo sapiens

<400> 672
gaggaaaaag cgagagaaaa gga 23

<210> 673
<211> 20
<212> DNA
<213> Homo sapiens

<400> 673
cccctccagg atgtgtctgt 20

<210> 674
<211> 20
<212> DNA
<213> Homo sapiens

<400> 674
caagagcctg atgcccact 20

<210> 675
<211> 20
<212> DNA
<213> Homo sapiens

<400> 675
cctactgctt tgccccaaga 20

<210> 676
<211> 20
<212> DNA
<213> Homo sapiens

<400> 676
gacctcccct ggtgaagaca 20

<210> 677
<211> 20
<212> DNA
<213> Homo sapiens

<400> 677
caacaggacg ccctctgatt 20

<210> 678
<211> 20
<212> DNA
<213> Homo sapiens

<400> 678
ctgtcagcag gaagcaacga 20

<210> 679
<211> 20
<212> DNA
<213> Homo sapiens

<400> 679
caaagggttg ggagctgatg 20

<210> 680
<211> 21
<212> DNA
<213> Homo sapiens

<400> 680
agtttgctgg cctgtacttc g 21

<210> 681
<211> 20
<212> DNA
<213> Homo sapiens

<400> 681
ccaaccacaa gcacacagga 20

<210> 682
<211> 20
<212> DNA
<213> Homo sapiens

<400> 682
tccacattcc aaaagccaca 20

<210> 683
<211> 20
<212> DNA
<213> Homo sapiens

<400> 683
gccacctcct gctgtttctc 20

<210> 684
<211> 20
<212> DNA
<213> Homo sapiens

<400> 684
cccctgtccc ctctatgacc 20

<210> 685
<211> 20
<212> DNA
<213> Homo sapiens

<400> 685
ggaccaggtc ttggagctga 20

<210> 686
<211> 20
<212> DNA

<213> Homo sapiens

<400> 686

ctgccctgta ggaaggcaga

20

<210> 687

<211> 20

<212> DNA

<213> Homo sapiens

<400> 687

ttcctgggttc ggggtgttacg

20

<210> 688

<211> 20

<212> DNA

<213> Homo sapiens

<400> 688

ggcaatccca ggaagacaaa

20

<210> 689

<211> 25

<212> DNA

<213> Homo sapiens

<400> 689

tcaggtatgt tgcctttatg gtttc

25

<210> 690

<211> 20

<212> DNA

<213> Homo sapiens

<400> 690

tgctgtacca cccacattgc

20

<210> 691

<211> 20

<212> DNA

<213> Homo sapiens

<400> 691

cacatccagc tccttcagca

20

<210> 692

<211> 20

<212> DNA

<213> Homo sapiens

<400> 692

cctacccac cccacctaaa

20

<210> 693

<211> 20
<212> DNA
<213> Homo sapiens

<400> 693
gactgggatg gcctcaagtg 20

<210> 694
<211> 20
<212> DNA
<213> Homo sapiens

<400> 694
ggcaggtact cagtgcacca 20

<210> 695
<211> 20
<212> DNA
<213> Homo sapiens

<400> 695
ggagagggcc attccaatct 20

<210> 696
<211> 20
<212> DNA
<213> Homo sapiens

<400> 696
cacctgcgtg atgaggagaa 20

<210> 697
<211> 20
<212> DNA
<213> Homo sapiens

<400> 697
ctggaagccc tttgttgtgc 20

<210> 698
<211> 20
<212> DNA
<213> Homo sapiens

<400> 698
ctcctgccga caagaccaac 20

<210> 699
<211> 20
<212> DNA
<213> Homo sapiens

<400> 699
tacttcccgc acttcgacct 20

<210> 700
<211> 21
<212> DNA
<213> Homo sapiens

<400> 700
aggcagaatc cagatgctca a 21

<210> 701
<211> 20
<212> DNA
<213> Homo sapiens

<400> 701
ggcagaagcc ataccccttga 20

<210> 702
<211> 20
<212> DNA
<213> Homo sapiens

<400> 702
gtggaagagg ctggaggtga 20

<210> 703
<211> 20
<212> DNA
<213> Homo sapiens

<400> 703
cagctttggc aacctgtcct 20

<210> 704
<211> 20
<212> DNA
<213> Homo sapiens

<400> 704
gcactacccc ggagacttca 20

<210> 705
<211> 20
<212> DNA
<213> Homo sapiens

<400> 705
tatgactgca gggaggagca 20

<210> 706
<211> 20
<212> DNA
<213> Homo sapiens

<400> 706

agtgaccatc tccccatcca

20

<210> 707

<211> 20

<212> DNA

<213> Homo sapiens

<400> 707

tacacctgcc aagtggagca

20

<210> 708

<211> 20

<212> DNA

<213> Homo sapiens

<400> 708

ctgtgtgtgg ggtggggtat

20

<210> 709

<211> 20

<212> DNA

<213> Homo sapiens

<400> 709

gaccaaggaa atcggcctct

20

<210> 710

<211> 20

<212> DNA

<213> Homo sapiens

<400> 710

cacgcgacat ccaatccata

20

<210> 711

<211> 21

<212> DNA

<213> Homo sapiens

<400> 711

ggctgtgttc caacaaccat t

21

<210> 712

<211> 20

<212> DNA

<213> Homo sapiens

<400> 712

gtaggtgacg gcagcgtagc

20

<210> 713

<211> 20

<212> DNA

<213> Homo sapiens

<400> 713
cctcgctttc aagaggcaga 20

<210> 714
<211> 20
<212> DNA
<213> Homo sapiens

<400> 714
gcgtgtgtac acgggactga 20

<210> 715
<211> 20
<212> DNA
<213> Homo sapiens

<400> 715
ctgaagagta cgcgctgcaa 20

<210> 716
<211> 20
<212> DNA
<213> Homo sapiens

<400> 716
gtgttgggag ggcagaagtg 20

<210> 717
<211> 20
<212> DNA
<213> Homo sapiens

<400> 717
tgaagaccac ctcccaggtc 20

<210> 718
<211> 20
<212> DNA
<213> Homo sapiens

<400> 718
ccgtgtgtct cgtctcctga 20

<210> 719
<211> 21
<212> DNA
<213> Homo sapiens

<400> 719
tcaaagcagc agagagggaa c 21

<210> 720
<211> 21

<212> DNA
<213> Homo sapiens

<400> 720
ggttgagagt gtgggtcttg c 21

<210> 721
<211> 26
<212> DNA
<213> Homo sapiens

<400> 721
gccataaag aaattaacac ccaaaa 26

<210> 722
<211> 20
<212> DNA
<213> Homo sapiens

<400> 722
tggagcagag gggctgaata 20

<210> 723
<211> 20
<212> DNA
<213> Homo sapiens

<400> 723
atcctgctgg ccctgtacct 20

<210> 724
<211> 22
<212> DNA
<213> Homo sapiens

<400> 724
cctcagccat ctttgtgagt cc 22

<210> 725
<211> 20
<212> DNA
<213> Homo sapiens

<400> 725
ggcgatgtgg acaatgatga 20

<210> 726
<211> 20
<212> DNA
<213> Homo sapiens

<400> 726
gccgcgtcac ttctctgatt 20

<210> 727
<211> 22
<212> DNA
<213> Homo sapiens

<400> 727
agtgggacct tgactggaga aa 22

<210> 728
<211> 20
<212> DNA
<213> Homo sapiens

<400> 728
tcattcttgga gggaccaagg 20

<210> 729
<211> 20
<212> DNA
<213> Homo sapiens

<400> 729
atgtgggagg gagcagacag 20

<210> 730
<211> 20
<212> DNA
<213> Homo sapiens

<400> 730
ggagggactg cgtggtattg 20

<210> 731
<211> 21
<212> DNA
<213> Homo sapiens

<400> 731
gggatagggtg gagggatgaa g 21

<210> 732
<211> 21
<212> DNA
<213> Homo sapiens

<400> 732
tcaaacaact gtggccagtg a 21

<210> 733
<211> 20
<212> DNA
<213> Homo sapiens

<400> 733
accctgagca actgggttca 20

<210> 734
<211> 20
<212> DNA
<213> Homo sapiens

<400> 734
cccgtgtgtt tccggtagtg 20

<210> 735
<211> 20
<212> DNA
<213> Homo sapiens

<400> 735
ctggtactgg ccctctgtgg 20

<210> 736
<211> 20
<212> DNA
<213> Homo sapiens

<400> 736
accaacagag tggggtttgg 20

<210> 737
<211> 20
<212> DNA
<213> Homo sapiens

<400> 737
cggcagattt tcaagctcca 20

<210> 738
<211> 20
<212> DNA
<213> Homo sapiens

<400> 738
gcaatgccag ctgaatagca 20

<210> 739
<211> 24
<212> DNA
<213> Homo sapiens

<400> 739
tgatactccc agtcttgtca ttgc 24

<210> 740
<211> 20
<212> DNA
<213> Homo sapiens

<400> 740
acgagcctgc accaaagtct 20

<210> 741
<211> 23
<212> DNA
<213> Homo sapiens

<400> 741
ctacctcaag ggggactgtc ttt 23

<210> 742
<211> 19
<212> DNA
<213> Homo sapiens

<400> 742
gcacgggcta caagctgag 19

<210> 743
<211> 21
<212> DNA
<213> Homo sapiens

<400> 743
agcacctgtg gggacaataa c 21

<210> 744
<211> 20
<212> DNA
<213> Homo sapiens

<400> 744
gactgtgctc cggcagttct 20

<210> 745
<211> 20
<212> DNA
<213> Homo sapiens

<400> 745
ctgaggcaga cagcagctca 20

<210> 746
<211> 20
<212> DNA
<213> Homo sapiens

<400> 746
ttcgatgggc ccaattctta 20

<210> 747
<211> 20
<212> DNA

<213> Homo sapiens

<400> 747

aattgttgga gagcccctca

20

<210> 748

<211> 24

<212> DNA

<213> Homo sapiens

<400> 748

agtgattgac ttggcatgaa aatg

24

<210> 749

<211> 22

<212> DNA

<213> Homo sapiens

<400> 749

ctgggtgggag gtctccataa ac

22

<210> 750

<211> 20

<212> DNA

<213> Homo sapiens

<400> 750

ctggctcacc tggacaacct

20

<210> 751

<211> 21

<212> DNA

<213> Homo sapiens

<400> 751

ggccacaaga ataagcagca a

21

<210> 752

<211> 20

<212> DNA

<213> Homo sapiens

<400> 752

tttgggcagc ttgggtaagt

20

<210> 753

<211> 29

<212> DNA

<213> Homo sapiens

<400> 753

ttcaaagtta aaagcaaaca cttacagaa

29

<210> 754

<211> 20
<212> DNA
<213> Homo sapiens

<400> 754
acgagtggag ttgggtgtcg 20

<210> 755
<211> 20
<212> DNA
<213> Homo sapiens

<400> 755
tgtgtgtgct tgtgcgtgtc 20

<210> 756
<211> 20
<212> DNA
<213> Homo sapiens

<400> 756
agccgaggac tggaagaagg 20

<210> 757
<211> 20
<212> DNA
<213> Homo sapiens

<400> 757
gggggatgag ttctggcagt 20

<210> 758
<211> 21
<212> DNA
<213> Homo sapiens

<400> 758
ggggctactg gagaggagag a 21

<210> 759
<211> 20
<212> DNA
<213> Homo sapiens

<400> 759
tcaatgcagg cgtccaagta 20

<210> 760
<211> 24
<212> DNA
<213> Homo sapiens

<400> 760
acgtgatttt gctgtagaag atgg 24

<210> 761
<211> 31
<212> DNA
<213> Homo sapiens

<400> 761
gactatgagg aatatttgca agacatagaa t 31

<210> 762
<211> 20
<212> DNA
<213> Homo sapiens

<400> 762
ctgagctctg gctttgcctt 20

<210> 763
<211> 20
<212> DNA
<213> Homo sapiens

<400> 763
agtccagcct gagggctctt 20

<210> 764
<211> 20
<212> DNA
<213> Homo sapiens

<400> 764
tgcagatgag acagcaacca 20

<210> 765
<211> 22
<212> DNA
<213> Homo sapiens

<400> 765
tgccaaaatc tcttctccct tc 22

<210> 766
<211> 20
<212> DNA
<213> Homo sapiens

<400> 766
acagggagac ccgtccatth 20

<210> 767
<211> 21
<212> DNA
<213> Homo sapiens

<400> 767

aaacagaggc catggcagaa t 21

<210> 768
<211> 25
<212> DNA
<213> Homo sapiens

<400> 768
tgccgtgtta ttgtattagg tgtca 25

<210> 769
<211> 20
<212> DNA
<213> Homo sapiens

<400> 769
gtccaccact tgctggggttt 20

<210> 770
<211> 20
<212> DNA
<213> Homo sapiens

<400> 770
aagccagaag ccaggaggag 20

<210> 771
<211> 24
<212> DNA
<213> Homo sapiens

<400> 771
tgctgtactc aggtggcact aact 24

<210> 772
<211> 22
<212> DNA
<213> Homo sapiens

<400> 772
tcccaaattg aatcactgct ca 22

<210> 773
<211> 18
<212> DNA
<213> Homo sapiens

<400> 773
tccactgcca tcctccca 18

<210> 774
<211> 20
<212> DNA
<213> Homo sapiens

<400> 774
tagggcctgg cttctgtctg 20

<210> 775
<211> 25
<212> DNA
<213> Homo sapiens

<400> 775
caaacatcac tctgctgctt agaca 25

<210> 776
<211> 25
<212> DNA
<213> Homo sapiens

<400> 776
gattaattca ccttccagtg tctcg 25

<210> 777
<211> 22
<212> DNA
<213> Homo sapiens

<400> 777
tggcatgtca gacagaactt ga 22

<210> 778
<211> 20
<212> DNA
<213> Homo sapiens

<400> 778
ttgtggcttc ctcagctcct 20

<210> 779
<211> 20
<212> DNA
<213> Homo sapiens

<400> 779
gctgaccttc ctcgcagaga 20

<210> 780
<211> 21
<212> DNA
<213> Homo sapiens

<400> 780
tccttcagtc ccaactcctt t 21

<210> 781
<211> 19

<212> DNA
<213> Homo sapiens

<400> 781
ttcatcttcc ccaagtgcg 19

<210> 782
<211> 19
<212> DNA
<213> Homo sapiens

<400> 782
cttgtcctcc gcactgcac 19

<210> 783
<211> 23
<212> DNA
<213> Homo sapiens

<400> 783
tgaggagtttt gctgattcct tct 23

<210> 784
<211> 28
<212> DNA
<213> Homo sapiens

<400> 784
ctaagccaga aacactgtaa aactacca 28

<210> 785
<211> 21
<212> DNA
<213> Homo sapiens

<400> 785
cccatcccca catcatattc a 21

<210> 786
<211> 21
<212> DNA
<213> Homo sapiens

<400> 786
cctctcacga cgcttctacc a 21

<210> 787
<211> 20
<212> DNA
<213> Homo sapiens

<400> 787
ttgcggcgtg tataccaatg 20

<210> 788
<211> 20
<212> DNA
<213> Homo sapiens
.
<400> 788
gtggtgcctt ctggagagga 20

<210> 789
<211> 20
<212> DNA
<213> Homo sapiens
.
<400> 789
tgttgtgcca gggaagggtt 20

<210> 790
<211> 22
<212> DNA
<213> Homo sapiens
.
<400> 790
cattcttcat cctcaccag ga 22

<210> 791
<211> 27
<212> DNA
<213> Homo sapiens
.
<400> 791
catgctttga gagtgattat ttccttt 27

<210> 792
<211> 24
<212> DNA
<213> Homo sapiens
.
<400> 792
tctcattagc ctgaatgtgc cata 24

<210> 793
<211> 20
<212> DNA
<213> Homo sapiens
.
<400> 793
cggaggagat tttcggacct 20

<210> 794
<211> 21
<212> DNA
<213> Homo sapiens
.
<400> 794
ccttggaaga tctgaccga a 21

<210> 795
<211> 20
<212> DNA
<213> Homo sapiens

<400> 795
gaggtggagc tggtgcagat 20

<210> 796
<211> 20
<212> DNA
<213> Homo sapiens

<400> 796
gcccagccta ggatctgaca 20

<210> 797
<211> 20
<212> DNA
<213> Homo sapiens

<400> 797
gcagactgag cgggaaaaga 20

<210> 798
<211> 20
<212> DNA
<213> Homo sapiens

<400> 798
tcccaaccga acttcttcca 20

<210> 799
<211> 32
<212> DNA
<213> Homo sapiens

<400> 799
tctacatgca atgttagtaa ttctgaagtt tt 32

<210> 800
<211> 20
<212> DNA
<213> Homo sapiens

<400> 800
ccaggaggat ggcaaagaga 20

<210> 801
<211> 20
<212> DNA
<213> Homo sapiens

<400> 801
cgaccatcca agggagagtg 20

<210> 802
<211> 20
<212> DNA
<213> Homo sapiens

<400> 802
gggctccagg actccctcta 20

<210> 803
<211> 20
<212> DNA
<213> Homo sapiens

<400> 803
gcctcttccc atctcaacca 20

<210> 804
<211> 20
<212> DNA
<213> Homo sapiens

<400> 804
ggtggatcag gccgttattg 20

<210> 805
<211> 20
<212> DNA
<213> Homo sapiens

<400> 805
aggggagacc gaagtgaagg 20

<210> 806
<211> 23
<212> DNA
<213> Homo sapiens

<400> 806
aaaaccgtat ccttcctgt tgt 23

<210> 807
<211> 20
<212> DNA
<213> Homo sapiens

<400> 807
aagaggcagc cgagagaatg 20

<210> 808
<211> 20
<212> DNA

<213> Homo sapiens

<400> 808

accgcgtggt tccagagttg

20

<210> 809

<211> 24

<212> DNA

<213> Homo sapiens

<400> 809

tgggctaact atgcagagca tgta

24

<210> 810

<211> 20

<212> DNA

<213> Homo sapiens

<400> 810

tggggcttct gagagattgg

20

<210> 811

<211> 20

<212> DNA

<213> Homo sapiens

<400> 811

cttaaacttg gcccggcatt

20

<210> 812

<211> 20

<212> DNA

<213> Homo sapiens

<400> 812

cggtgccttc ttaggagctg

20

<210> 813

<211> 21

<212> DNA

<213> Homo sapiens

<400> 813

cctaggggag accgaagtga a

21

<210> 814

<211> 20

<212> DNA

<213> Homo sapiens

<400> 814

tgctgcggca tagaatcaag

20

<210> 815

<211> 19
<212> DNA
<213> Homo sapiens

<400> 815
tcgttgcaat cctcgggtca 19

<210> 816
<211> 20
<212> DNA
<213> Homo sapiens

<400> 816
agcagcaggt ggaatccaag 20

<210> 817
<211> 20
<212> DNA
<213> Homo sapiens

<400> 817
ggccatttca ggcagcataa 20

<210> 818
<211> 21
<212> DNA
<213> Homo sapiens

<400> 818
ttctaccctg cggagatcac a 21

<210> 819
<211> 20
<212> DNA
<213> Homo sapiens

<400> 819
gcttgtgcat gaccctgatg 20

<210> 820
<211> 20
<212> DNA
<213> Homo sapiens

<400> 820
ttgccctctc ctcacacgta 20

<210> 821
<211> 20
<212> DNA
<213> Homo sapiens

<400> 821
cccctggagg ttgtcttcaa 20

<210> 822
<211> 22
<212> DNA
<213> Homo sapiens

<400> 822
tgccttgcta cctcatcaga ga 22

<210> 823
<211> 20
<212> DNA
<213> Homo sapiens

<400> 823
agagagggcc tgccttaacc 20

<210> 824
<211> 19
<212> DNA
<213> Homo sapiens

<400> 824
tcccattcca ccacagtgc 19

<210> 825
<211> 22
<212> DNA
<213> Homo sapiens

<400> 825
tcaaggatca gtttcaccca ca 22

<210> 826
<211> 19
<212> DNA
<213> Homo sapiens

<400> 826
ttctccgagc ttcgcaatg 19

<210> 827
<211> 20
<212> DNA
<213> Homo sapiens

<400> 827
ggcatcctgg gctacactga 20

<210> 828
<211> 20
<212> DNA
<213> Homo sapiens

<400> 828

gcacgacgat gaggtgacag

20

<210> 829

<211> 20

<212> DNA

<213> Homo sapiens

<400> 829

ccaaccacaaa ttgccccttt

20

<210> 830

<211> 20

<212> DNA

<213> Homo sapiens

<400> 830

tgtaggccc ctgtttcctg

20

<210> 831

<211> 19

<212> DNA

<213> Homo sapiens

<400> 831

ctcatcatcc tggccgtca

19

<210> 832

<211> 20

<212> DNA

<213> Homo sapiens

<400> 832

tgttcactgc agcccatttg

20

<210> 833

<211> 21

<212> DNA

<213> Homo sapiens

<400> 833

ttccaaaagc caaggtgaga a

21

<210> 834

<211> 21

<212> DNA

<213> Homo sapiens

<400> 834

aaagttgctg tggttggttg c

21

<210> 835

<211> 21

<212> DNA

<213> Homo sapiens

<400> 835
gaccatccca aaatgcttca a 21

<210> 836
<211> 21
<212> DNA
<213> Homo sapiens

<400> 836
tggcgccaac tttaaacatt c 21

<210> 837
<211> 20
<212> DNA
<213> Homo sapiens

<400> 837
cctcaacccc atgctttacg 20

<210> 838
<211> 20
<212> DNA
<213> Homo sapiens

<400> 838
tcttcggctg ctcttgactt 20

<210> 839
<211> 20
<212> DNA
<213> Homo sapiens

<400> 839
tttctctctc tcccctcagc 20

<210> 840
<211> 20
<212> DNA
<213> Homo sapiens

<400> 840
ttgagggccc ttgacaaaag 20

<210> 841
<211> 24
<212> DNA
<213> Homo sapiens

<400> 841
ccattatggt gctactgagc gttt 24

<210> 842
<211> 22

<212> DNA
<213> Homo sapiens

<400> 842
aggggaagtt tgtaccccat tg 22

<210> 843
<211> 21
<212> DNA
<213> Homo sapiens

<400> 843
ggctcttcag ctgcttgccc t 21

<210> 844
<211> 20
<212> DNA
<213> Homo sapiens

<400> 844
tcgtcgtggg gggtttgttg 20

<210> 845
<211> 20
<212> DNA
<213> Homo sapiens

<400> 845
tccgccatcc ctgctattta 20

<210> 846
<211> 20
<212> DNA
<213> Homo sapiens

<400> 846
gatgcagaga gccagcaagg 20

<210> 847
<211> 23
<212> DNA
<213> Homo sapiens

<400> 847
cccaggtatt acacaagcca aaa 23

<210> 848
<211> 20
<212> DNA
<213> Homo sapiens

<400> 848
ctgactctgc ccgacttcct 20

<210> 849
<211> 32
<212> DNA
<213> Homo sapiens

<400> 849
ttcctatcta ataaatgcct ttaattgttc tc 32

<210> 850
<211> 21
<212> DNA
<213> Homo sapiens

<400> 850
gcgtcatggg gtctcatcgt t 21

<210> 851
<211> 20
<212> DNA
<213> Homo sapiens

<400> 851
tgacatgact ggctgggtgc 20

<210> 852
<211> 20
<212> DNA
<213> Homo sapiens

<400> 852
cacgacgtct ccgctatct 20

<210> 853
<211> 20
<212> DNA
<213> Homo sapiens

<400> 853
agttaacggc ccaagtgggtg 20

<210> 854
<211> 25
<212> DNA
<213> Homo sapiens

<400> 854
agctgtttca ttagctgct ttagg 25

<210> 855
<211> 19
<212> DNA
<213> Homo sapiens

<400> 855
gaaacacagc ccgatgggtg 19

<210> 856
<211> 20
<212> DNA
<213> Homo sapiens

<400> 856
ttcctttcac cacccacacc 20

<210> 857
<211> 19
<212> DNA
<213> Homo sapiens

<400> 857
gaccctctct tccccttct 19

<210> 858
<211> 20
<212> DNA
<213> Homo sapiens

<400> 858
cacccagtgc taccgagaca 20

<210> 859
<211> 18
<212> DNA
<213> Homo sapiens

<400> 859
tgtcgctgct gtggttgc 18

<210> 860
<211> 20
<212> DNA
<213> Homo sapiens

<400> 860
agccatgaag cacatggtca 20

<210> 861
<211> 20
<212> DNA
<213> Homo sapiens

<400> 861
caatatgtgc cgccagtgtt 20

<210> 862
<211> 28
<212> DNA
<213> Homo sapiens

<400> 862
aatctttacac acaaatgaaa atgcaagt 28

<210> 863
<211> 20
<212> DNA
<213> Homo sapiens

<400> 863
atgttgcggt aatcggagga 20

<210> 864
<211> 20
<212> DNA
<213> Homo sapiens

<400> 864
cctgggtggt tgggtcagat 20

<210> 865
<211> 22
<212> DNA
<213> Homo sapiens

<400> 865
ctgtcttcag ctgggtcaga ga 22

<210> 866
<211> 20
<212> DNA
<213> Homo sapiens

<400> 866
gagcagggac tctggagcag 20

<210> 867
<211> 21
<212> DNA
<213> Homo sapiens

<400> 867
cagaaaacgc aggtgaaatg c 21

<210> 868
<211> 22
<212> DNA
<213> Homo sapiens

<400> 868
gcgttatagg tggagaccga gt 22

<210> 869
<211> 19
<212> DNA

<213> Homo sapiens

<400> 869

tccacctttg ggtcgcttt

19

<210> 870

<211> 20

<212> DNA

<213> Homo sapiens

<400> 870

tctggctcttg ggaggtaggg

20

<210> 871

<211> 20

<212> DNA

<213> Homo sapiens

<400> 871

gcaccagggtg gtctcctctg

20

<210> 872

<211> 20

<212> DNA

<213> Homo sapiens

<400> 872

ctaccccaca gcaggtagcc

20

<210> 873

<211> 20

<212> DNA

<213> Homo sapiens

<400> 873

cctgaccaac attgcgattg

20

<210> 874

<211> 20

<212> DNA

<213> Homo sapiens

<400> 874

cccatgccag tgatcctacc

20

<210> 875

<211> 20

<212> DNA

<213> Homo sapiens

<400> 875

tcctcctgga ccgtgagaag

20

<210> 876

<211> 23
<212> DNA
<213> Homo sapiens

<400> 876
gattcctctt ggacccactt ttc 23

<210> 877
<211> 20
<212> DNA
<213> Homo sapiens

<400> 877
gctagcccca tcctcactca 20

<210> 878
<211> 21
<212> DNA
<213> Homo sapiens

<400> 878
ccgaaagcct cctggaaatt a 21

<210> 879
<211> 20
<212> DNA
<213> Homo sapiens

<400> 879
gcatcatgtt gaccgagctg 20

<210> 880
<211> 27
<212> DNA
<213> Homo sapiens

<400> 880
tgtggaaagt tttccctcat atactca 27

<210> 881
<211> 21
<212> DNA
<213> Homo sapiens

<400> 881
gggagacctg cctctcagaa t 21

<210> 882
<211> 20
<212> DNA
<213> Homo sapiens

<400> 882
tgcagagccc caattcctac 20

<210> 883
<211> 18
<212> DNA
<213> Homo sapiens

<400> 883
gccccacgtg tgaccatt 18

<210> 884
<211> 24
<212> DNA
<213> Homo sapiens

<400> 884
tcgttggtgta atcgtgtcag aaaa 24

<210> 885
<211> 20
<212> DNA
<213> Homo sapiens

<400> 885
aacaagctgt ccagcgaagc 20

<210> 886
<211> 20
<212> DNA
<213> Homo sapiens

<400> 886
cggtacccaa ttcgccctat 20

<210> 887
<211> 20
<212> DNA
<213> Homo sapiens

<400> 887
accctgtggt ggtcttggac 20

<210> 888
<211> 20
<212> DNA
<213> Homo sapiens

<400> 888
gccgtatata acggcgagac 20

<210> 889
<211> 21
<212> DNA
<213> Homo sapiens

<400> 889

aagagccagc agagcaaaac a 21

<210> 890
<211> 22
<212> DNA
<213> Homo sapiens

<400> 890
ttacgtgtgc acagagaggt ca 22

<210> 891
<211> 20
<212> DNA
<213> Homo sapiens

<400> 891
ggtggcacct accgtctgtt 20

<210> 892
<211> 20
<212> DNA
<213> Homo sapiens

<400> 892
tgtgttcctt ggtgatgtgg 20

<210> 893
<211> 20
<212> DNA
<213> Homo sapiens

<400> 893
cttcgtggag gctgtggaac 20

<210> 894
<211> 20
<212> DNA
<213> Homo sapiens

<400> 894
tgaggcctga gtccttctgg 20

<210> 895
<211> 20
<212> DNA
<213> Homo sapiens

<400> 895
atttcgcagg ccttcctctc 20

<210> 896
<211> 21
<212> DNA
<213> Homo sapiens

<400> 896
tgtgtgtgca ccttgtcttc c 21

<210> 897
<211> 20
<212> DNA
<213> Homo sapiens

<400> 897
gtcctggcaa catggagagg 20

<210> 898
<211> 27
<212> DNA
<213> Homo sapiens

<400> 898
ccctaattgc taagatttaa ggacgtt 27

<210> 899
<211> 25
<212> DNA
<213> Homo sapiens

<400> 899
ttgagggagt agtggaatga aaaca 25

<210> 900
<211> 20
<212> DNA
<213> Homo sapiens

<400> 900
tgggagaact ccaatgctga 20

<210> 901
<211> 20
<212> DNA
<213> Homo sapiens

<400> 901
gcaccagcag ggatggatta 20

<210> 902
<211> 20
<212> DNA
<213> Homo sapiens

<400> 902
gcctggaccg atgtgtctct 20

<210> 903
<211> 22

<212> DNA
<213> Homo sapiens

<400> 903
cagccacagc cttttaattt gg 22

<210> 904
<211> 20
<212> DNA
<213> Homo sapiens

<400> 904
aagacacccg catcttcctg 20

<210> 905
<211> 20
<212> DNA
<213> Homo sapiens

<400> 905
gggagacctg ctctgcaaaa 20

<210> 906
<211> 22
<212> DNA
<213> Homo sapiens

<400> 906
cccaaactga tcttccaggc ta 22

<210> 907
<211> 20
<212> DNA
<213> Homo sapiens

<400> 907
ttccccctctc atcgatcatgg 20

<210> 908
<211> 20
<212> DNA
<213> Homo sapiens

<400> 908
ccaaggacct gggatctcct 20

<210> 909
<211> 20
<212> DNA
<213> Homo sapiens

<400> 909
gaaaaccacg gaggtggatg 20

<210> 910
<211> 20
<212> DNA
<213> Homo sapiens

<400> 910
tggaggcaga gtagcggact 20

<210> 911
<211> 20
<212> DNA
<213> Homo sapiens

<400> 911
gtaggcacgc acgaagaaca 20

<210> 912
<211> 20
<212> DNA
<213> Homo sapiens

<400> 912
cctccgcaga tgcttcattt 20

<210> 913
<211> 27
<212> DNA
<213> Homo sapiens

<400> 913
tttgttttga gttttcaaag aatagcc 27

<210> 914
<211> 22
<212> DNA
<213> Homo sapiens

<400> 914
ggtacagcac ttggctgggt ta 22

<210> 915
<211> 31
<212> DNA
<213> Homo sapiens

<400> 915
tttgtagatg actctcattt tattgtttct t 31

<210> 916
<211> 20
<212> DNA
<213> Homo sapiens

<400> 916
cctgcttggg gaaatgttca 20

<210> 917
<211> 19
<212> DNA
<213> Homo sapiens

<400> 917
gtgggcttca gggttggag 19

<210> 918
<211> 20
<212> DNA
<213> Homo sapiens

<400> 918
cctggatgtc agcgaagagg 20

<210> 919
<211> 21
<212> DNA
<213> Homo sapiens

<400> 919
caagcttcac tggctctctg g 21

<210> 920
<211> 20
<212> DNA
<213> Homo sapiens

<400> 920
gcccaaaact gctccaaaga 20

<210> 921
<211> 22
<212> DNA
<213> Homo sapiens

<400> 921
gcctttccag tacaggcact tt 22

<210> 922
<211> 20
<212> DNA
<213> Homo sapiens

<400> 922
gcgcggtgag gttgtctagt 20

<210> 923
<211> 26
<212> DNA
<213> Homo sapiens

<400> 923
tcaacactac acatgaatga atccaa 26

<210> 924
<211> 29
<212> DNA
<213> Homo sapiens

<400> 924
tggaaatgta accatttttag gataatgtc 29

<210> 925
<211> 21
<212> DNA
<213> Homo sapiens

<400> 925
cccaagagag aacagggtgg t 21

<210> 926
<211> 32
<212> DNA
<213> Homo sapiens

<400> 926
cactcagtaa agacaatttc cataaaataa aa 32

<210> 927
<211> 20
<212> DNA
<213> Homo sapiens

<400> 927
ccgcccgtaa ttaaataagca 20

<210> 928
<211> 20
<212> DNA
<213> Homo sapiens

<400> 928
cctgcagcag atgcctcttt 20

<210> 929
<211> 20
<212> DNA
<213> Homo sapiens

<400> 929
tcccctgggt tgctaattga 20

<210> 930
<211> 20
<212> DNA

<213> Homo sapiens

<400> 930

gccttcattt ccgcaggtta

20

<210> 931

<211> 20

<212> DNA

<213> Homo sapiens

<400> 931

cgtctggtga caaccgagtg

20

<210> 932

<211> 21

<212> DNA

<213> Homo sapiens

<400> 932

tggcagggtg aggagtgttt g

21

<210> 933

<211> 20

<212> DNA

<213> Homo sapiens

<400> 933

atcgcttttg gcgacagact

20

<210> 934

<211> 20

<212> DNA

<213> Homo sapiens

<400> 934

tcctgagctc gcccaataagc

20

<210> 935

<211> 20

<212> DNA

<213> Homo sapiens

<400> 935

tggcaccaaa aggacaata

20

<210> 936

<211> 20

<212> DNA

<213> Homo sapiens

<400> 936

caagagatgc agtgccagga

20

<210> 937

<211> 20
<212> DNA
<213> Homo sapiens

<400> 937
agaggaggag gctgctgggt 20

<210> 938
<211> 20
<212> DNA
<213> Homo sapiens

<400> 938
gctcgccac aaactgattt 20

<210> 939
<211> 25
<212> DNA
<213> Homo sapiens

<400> 939
tgatttgat acggtgaata agctg 25

<210> 940
<211> 20
<212> DNA
<213> Homo sapiens

<400> 940
cggcaaagag aacggaaaga 20

<210> 941
<211> 20
<212> DNA
<213> Homo sapiens

<400> 941
gatcccagcc cacaagtgat 20

<210> 942
<211> 27
<212> DNA
<213> Homo sapiens

<400> 942
acttgtaac ctttctaacc ttcacga 27

<210> 943
<211> 20
<212> DNA
<213> Homo sapiens

<400> 943
agtaagtcag ggcgggcttt 20

<210> 944
<211> 20
<212> DNA
<213> Homo sapiens

<400> 944
tcttcaccca tcatggagca 20

<210> 945
<211> 20
<212> DNA
<213> Homo sapiens

<400> 945
cattcagcgg acagcaaaca 20

<210> 946
<211> 20
<212> DNA
<213> Homo sapiens

<400> 946
ttgtccatgg caaaacagga 20

<210> 947
<211> 20
<212> DNA
<213> Homo sapiens

<400> 947
aggctctcct ccccttttcc 20

<210> 948
<211> 20
<212> DNA
<213> Homo sapiens

<400> 948
tcacactctg caccctcag 20

<210> 949
<211> 24
<212> DNA
<213> Homo sapiens

<400> 949
caacattggc tggtaatagg cttt 24

<210> 950
<211> 20
<212> DNA
<213> Homo sapiens

<400> 950

tccactgccc taacacacga 20

<210> 951
<211> 21
<212> DNA
<213> Homo sapiens

<400> 951
accatttta cagtgccatg c 21

<210> 952
<211> 20
<212> DNA
<213> Homo sapiens

<400> 952
gctctttgcc tgctggtttc 20

<210> 953
<211> 20
<212> DNA
<213> Homo sapiens

<400> 953
cgaacgagtc atggcctagc 20

<210> 954
<211> 20
<212> DNA
<213> Homo sapiens

<400> 954
ggtaagcaca tcccctcgaa 20

<210> 955
<211> 25
<212> DNA
<213> Homo sapiens

<400> 955
cccataacca aaatttaaag gcaaa 25

<210> 956
<211> 21
<212> DNA
<213> Homo sapiens

<400> 956
tggcatgttt tgtgcatttg t 21

<210> 957
<211> 20
<212> DNA
<213> Homo sapiens

<400> 957
ccatgggggtg agacttgagc 20

<210> 958
<211> 20
<212> DNA
<213> Homo sapiens

<400> 958
tttctccaga agcccagcac 20

<210> 959
<211> 25
<212> DNA
<213> Homo sapiens

<400> 959
ttttttttca agcagtaaaa ttcca 25

<210> 960
<211> 20
<212> DNA
<213> Homo sapiens

<400> 960
cactctgcgc cacaaaggtt 20

<210> 961
<211> 20
<212> DNA
<213> Homo sapiens

<400> 961
gaagcccctc accctgagat 20

<210> 962
<211> 20
<212> DNA
<213> Homo sapiens

<400> 962
ccgtacaagt cgggtgggta 20

<210> 963
<211> 20
<212> DNA
<213> Homo sapiens

<400> 963
gcaaagtgag gagggagctg 20

<210> 964
<211> 20

<212> DNA
<213> Homo sapiens

<400> 964
cagggctatg agcggaagaa 20

<210> 965
<211> 20
<212> DNA
<213> Homo sapiens

<400> 965
gacccgcaa aaccaaatta 20

<210> 966
<211> 20
<212> DNA
<213> Homo sapiens

<400> 966
gacgtcattg tcggcgactt 20

<210> 967
<211> 20
<212> DNA
<213> Homo sapiens

<400> 967
cttccagcag accccagtgt 20

<210> 968
<211> 20
<212> DNA
<213> Homo sapiens

<400> 968
cctctgctgg gttgttaccg 20

<210> 969
<211> 21
<212> DNA
<213> Homo sapiens

<400> 969
tgaatccctt gctgttcct a 21

<210> 970
<211> 20
<212> DNA
<213> Homo sapiens

<400> 970
taccttggct ccctgtcctg 20

<210> 971
<211> 20
<212> DNA
<213> Homo sapiens

<400> 971
taggggtaag ccctgggtgt 20

<210> 972
<211> 21
<212> DNA
<213> Homo sapiens

<400> 972
ttccatcctg tcctggaatc a 21

<210> 973
<211> 20
<212> DNA
<213> Homo sapiens

<400> 973
gggcacagct tcctctcttg 20

<210> 974
<211> 20
<212> DNA
<213> Homo sapiens

<400> 974
ccctgccaca cacacatttt 20

<210> 975
<211> 20
<212> DNA
<213> Homo sapiens

<400> 975
cccttggtgc cccacatttt 20

<210> 976
<211> 20
<212> DNA
<213> Homo sapiens

<400> 976
ctgcagcctc acagacctga 20

<210> 977
<211> 21
<212> DNA
<213> Homo sapiens

<400> 977
tgccattgtc ccatctagga a 21

<210> 978
<211> 21
<212> DNA
<213> Homo sapiens

<400> 978
tcagggattt ctaagccacc a

21

<210> 979
<211> 20
<212> DNA
<213> Homo sapiens

<400> 979
agcaggggaat tccaggaagc

20

<210> 980
<211> 20
<212> DNA
<213> Homo sapiens

<400> 980
gcctcctgta gtcgctttgc

20

<210> 981
<211> 20
<212> DNA
<213> Homo sapiens

<400> 981
gcacgggttca aaagcagggtt

20

<210> 982
<211> 20
<212> DNA
<213> Homo sapiens

<400> 982
gagccctcgc ctctttcttc

20

<210> 983
<211> 20
<212> DNA
<213> Homo sapiens

<400> 983
ggtggtgtgc agagcgtatg

20

<210> 984
<211> 20
<212> DNA
<213> Homo sapiens

<400> 984
accgacgaga ccagaagtgg 20

<210> 985
<211> 27
<212> DNA
<213> Homo sapiens

<400> 985
ttctgttgga gtattttctt ccttacg 27

<210> 986
<211> 20
<212> DNA
<213> Homo sapiens

<400> 986
cacacttggtg ggcaatctgg 20

<210> 987
<211> 20
<212> DNA
<213> Homo sapiens

<400> 987
cccgtggagc tgacaagttt 20

<210> 988
<211> 20
<212> DNA
<213> Homo sapiens

<400> 988
agtgccccag gcattttctt 20

<210> 989
<211> 20
<212> DNA
<213> Homo sapiens

<400> 989
gcctttgctg ggcattatgt 20

<210> 990
<211> 20
<212> DNA
<213> Homo sapiens

<400> 990
ccgagccaag acgagaagaa 20

<210> 991
<211> 20
<212> DNA

<213> Homo sapiens

<400> 991
cctgcatttg accagagcaa 20

<210> 992
<211> 25
<212> DNA
<213> Homo sapiens

<400> 992
tgcaacacta acaagagaga atgga 25

<210> 993
<211> 20
<212> DNA
<213> Homo sapiens

<400> 993
aggcccagac ttctccaagg 20

<210> 994
<211> 20
<212> DNA
<213> Homo sapiens

<400> 994
aggccaagtc aggcccttat 20

<210> 995
<211> 20
<212> DNA
<213> Homo sapiens

<400> 995
ttgccagaat gggactgtga 20

<210> 996
<211> 20
<212> DNA
<213> Homo sapiens

<400> 996
gcaagcttat gacccgcact 20

<210> 997
<211> 20
<212> DNA
<213> Homo sapiens

<400> 997
tggcttttag gatggcaagg 20

<210> 998

<211> 19
<212> DNA
<213> Homo sapiens

<400> 998
ccgataaggg cgaggtctg 19

<210> 999
<211> 22
<212> DNA
<213> Homo sapiens

<400> 999
tttcccccaa attctaagca ga 22

<210> 1000
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1000
ccagagccca ggtttctcaa 20

<210> 1001
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1001
ggcaagtgag gggatgagtg 20

<210> 1002
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1002
ggcgctctct atgtgggtgt 20

<210> 1003
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1003
gggtcattag aagccccttc a 21

<210> 1004
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1004
cccatgttcc cgaagtagga 20

<210> 1005
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1005
ggggaggtgg ataggcaaac 20

<210> 1006
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1006
ttttcagccc cttgcttctg 20

<210> 1007
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1007
ggacgtcttt ggttgggatt t 21

<210> 1008
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1008
gaaggagggg tgggttggtc 20

<210> 1009
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1009
ttgacttggc ccagagggta 20

<210> 1010
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1010
actcgaacac tgcagcatgg 20

<210> 1011
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1011

cccatggatg atgactgctg 20

<210> 1012
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1012
ggtgggttta cagtccctgc at 22

<210> 1013
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1013
tgccaaacct tgagtgatgg 20

<210> 1014
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1014
atcgtcttgg tcgccactgt 20

<210> 1015
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1015
tgtgcgttgc ctgaatgaac 20

<210> 1016
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1016
ggaggaagcc atggagatca 20

<210> 1017
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1017
tctccccact tgaagcgtct 20

<210> 1018
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1018
tgcaaaatgc atgccctgta 20

<210> 1019
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1019
ccgaccgtcc ataggatacg 20

<210> 1020
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1020
ctttggaaag gtgcgagagc 20

<210> 1021
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1021
tccaggggaac tgggagtgcg 20

<210> 1022
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1022
tcccttctcg gaccagtgtc 20

<210> 1023
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1023
gtaggggcca tcggataagc 20

<210> 1024
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1024
accaccaaca acccacatcc 20

<210> 1025
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1025
ggatccccac tggcatttct 20

<210> 1026
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1026
gaagaagccg accttccaca 20

<210> 1027
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1027
ctgtagtcac ggcccagctc 20

<210> 1028
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1028
atagacacca ggcccacgag 20

<210> 1029
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1029
ggggaaggac aggaacatcc 20

<210> 1030
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1030
tgtcgtcgat gctcttcacc 20

<210> 1031
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1031
ccctggccca caagtatcac 20

<210> 1032
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1032
gccctggctc acaagtacca 20

<210> 1033
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1033
atggcagagg gagacgacag 20

<210> 1034
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1034
gctttgtggc atctcccaag 20

<210> 1035
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1035
ttcagcggta ctcggaacc 20

<210> 1036
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1036
caggcatctg gattggctct 20

<210> 1037
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1037
attccgaaac caccggactt 20

<210> 1038
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1038
cgactccact cagcatcttg c 21

<210> 1039
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1039
tgggatgagg atgtgtcgag 20

<210> 1040
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1040
gccatacctc taggctggct atc 23

<210> 1041
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1041
ctgcgcattc tcaagggttt 20

<210> 1042
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1042
ttccggaagt catttcacta agc 23

<210> 1043
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1043
aggattgacc gtcccctctc 20

<210> 1044
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1044
caccctccag ttcccactgt 20

<210> 1045
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1045
tcaacagcaa caagcccgta 20

<210> 1046
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1046
agcagttcca cccctctgg 19

<210> 1047
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1047
ccggccaacc cctttaata 20

<210> 1048
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1048
tcagcgtggc tatcagttgg 20

<210> 1049
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1049
caagtgcgga gacccatctt 20

<210> 1050
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1050
acagccatca agaaaggaca ca 22

<210> 1051
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1051
ccacctgcat ccaaataatg g 21

<210> 1052
<211> 20
<212> DNA

<213> Homo sapiens

<400> 1052
tccaaagggt tgcttgaagg 20

<210> 1053
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1053
ccatggaagg gtccaatgag 20

<210> 1054
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1054
gcctgctcct cttggatgg 19

<210> 1055
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1055
aaatagggga cctgcccagt 20

<210> 1056
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1056
tgtaggcgcc aaggtggtat 20

<210> 1057
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1057
gttgccacag aaggagggtt t 21

<210> 1058
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1058
tccattcacc gtcaagactg aa 22

<210> 1059

<211> 22
<212> DNA
<213> Homo sapiens

<400> 1059
tattcccatt cttctgccat gc 22

<210> 1060
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1060
ggtgaagagg tggaggggtga 20

<210> 1061
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1061
ggtgtctggt ttgggtccag 20

<210> 1062
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1062
aacaggcgac ctttcagcag 20

<210> 1063
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1063
aggcatgaag gatgccaaga 20

<210> 1064
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1064
ccaggacctc ctgcttagcc 20

<210> 1065
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1065
cacaggggag aagccatacg 20

<210> 1066
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1066
tcatgaggct gtgctggaag 20

<210> 1067
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1067
ggcttctctg tgaattgcct gt 22

<210> 1068
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1068
ggctccaatg gtttccacaa 20

<210> 1069
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1069
ggtccatgtc tttggggatg 20

<210> 1070
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1070
gactgtggag ttttggtgt ttta 24

<210> 1071
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1071
tcattacagc gggggcttag 20

<210> 1072
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1072

ttggcctctt tcagcctctt t 21

<210> 1073
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1073
cctgcagtgg gccctagtc 19

<210> 1074
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1074
gagcacatcc ccaaaatcca 20

<210> 1075
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1075
gatcagctgc ttgtgcctgt 20

<210> 1076
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1076
cagccacagt cttccccaat 20

<210> 1077
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1077
aaccttcatg caccatc 20

<210> 1078
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1078
agtgcattg tgggacagca 20

<210> 1079
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1079
ctgtggtgct cttggtctgc 20

<210> 1080
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1080
agttcaaccc aaatgatcag gaa 23

<210> 1081
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1081
gcccaggagc ctgaagttct 20

<210> 1082
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1082
accaaaatga gaacctcaac agc 23

<210> 1083
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1083
aatttctgga aaagtcaaca ggataca 27

<210> 1084
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1084
ttgatgatgt ctctcactct gttcc 25

<210> 1085
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1085
ttgagtggct gggactccat 20

<210> 1086
<211> 20

<212> DNA
<213> Homo sapiens

<400> 1086
ccggccacat tcactgattt 20

<210> 1087
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1087
aagcggtcga tggctttctg 20

<210> 1088
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1088
gatggaaacc agagacaaaa acga 24

<210> 1089
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1089
gagaattccg gaacctgtgg 20

<210> 1090
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1090
cccaacttcc tgacggttca 20

<210> 1091
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1091
ggtgctgaaa tcaaccact c 21

<210> 1092
<211> 28
<212> DNA
<213> Homo sapiens

<400> 1092
agaattgatt taggaaagtc acaaacct 28

<210> 1093
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1093
tgcagtgttc ctccccttcct 20

<210> 1094
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1094
gcccagtgga caggtttctg 20

<210> 1095
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1095
cctgatatgt tttaagtggg aagca 25

<210> 1096
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1096
tgatcacatg aagtcacatt ggttt 25

<210> 1097
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1097
agatgatccc cgcacatga 19

<210> 1098
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1098
ctgcctggga cctcattcat 20

<210> 1099
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1099
ccatgtattt gcaacagcag aga 23

<210> 1100
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1100
gccaaacctg caaacaaca 20

<210> 1101
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1101
gggaccgctt tcttacctgt t 21

<210> 1102
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1102
cagtcattgg tgtctttgga gtg 23

<210> 1103
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1103
gatctccacc ggacagcact 20

<210> 1104
<211> 30
<212> DNA
<213> Homo sapiens

<400> 1104
cacatacatt ttcagatatt tctaccttcc 30

<210> 1105
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1105
gttcattctg ccccatcagc 20

<210> 1106
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1106
tccaaggtct gatcatcttc ttga 24

<210> 1107
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1107
gctttcaaga atgaagtggg tgg 23

<210> 1108
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1108
gtcaacaata ttggaagca ccag 24

<210> 1109
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1109
tttaggcaaa ggggagcaca 20

<210> 1110
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1110
ccaaaggaag ccctcagaga 20

<210> 1111
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1111
gggcacaaat gcaaagtaag c 21

<210> 1112
<211> 18
<212> DNA
<213> Homo sapiens

<400> 1112
cctgggctgt ggcttcat 18

<210> 1113
<211> 21
<212> DNA

<213> Homo sapiens

<400> 1113

caggtggatt cgtggtgcta a

21

<210> 1114

<211> 21

<212> DNA

<213> Homo sapiens

<400> 1114

gttttggggg gttgaggag t

21

<210> 1115

<211> 24

<212> DNA

<213> Homo sapiens

<400> 1115

ttcacagtgt gtggtcaaca tttc

24

<210> 1116

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1116

ccctctcatc tagcccacca

20

<210> 1117

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1117

cacagaggag gctgcagatg

20

<210> 1118

<211> 22

<212> DNA

<213> Homo sapiens

<400> 1118

tgattggaag ccacaaattt ca

22

<210> 1119

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1119

gggagactgc tcccatctca

20

<210> 1120

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1120
tgacctcaga cgtggagcag 20

<210> 1121
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1121
tgggggttgga gctcaatctt 20

<210> 1122
<211> 27
<212> DNA
<213> Homo sapiens

<400> 1122
ctgttgatct gtttcttgaa ctttcct 27

<210> 1123
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1123
taaaaccac agtgcttgac aca 23

<210> 1124
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1124
ggagcagggg tagagccact 20

<210> 1125
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1125
ggccagaatt tccttctcca c 21

<210> 1126
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1126
catttctggg caggcatga 19

<210> 1127
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1127
gagacacccc agcccctagt 20

<210> 1128
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1128
gatgctctgc cacagctcct 20

<210> 1129
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1129
ctgtcttcaa ggggccagtg 20

<210> 1130
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1130
aattaatctg gacagtttca tctgaagag 29

<210> 1131
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1131
ctctggccaa ctgcctgttt 20

<210> 1132
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1132
tccctgccag tctcgaaaag 20

<210> 1133
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1133

gcttggccca taagtgtgct 20

<210> 1134
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1134
agccccttca atcccatcat 20

<210> 1135
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1135
tcctcaaacc cgtggatcat 20

<210> 1136
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1136
cggtgccttc ttaggagctg 20

<210> 1137
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1137
aaaaggagga caagtctaac ggaat 25

<210> 1138
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1138
tgatggttat tcgctggttc g 21

<210> 1139
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1139
tctgccagga catctttctc g 21

<210> 1140
<211> 25
<212> DNA
<213> Homo sapiens

<400> 1140
cacatcatgc agctccttaa tacaa 25

<210> 1141
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1141
gctgcatcca gcctctgttt 20

<210> 1142
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1142
aacagccaga atcgctggag 20

<210> 1143
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1143
aggggagacc gaagtgaagg 20

<210> 1144
<211> 17
<212> DNA
<213> Homo sapiens

<400> 1144
ctctggcccg ataccg 17

<210> 1145
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1145
ctgcaaacad cctcccatca 20

<210> 1146
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1146
ggccgaagaa tccctcaaaa 20

<210> 1147
<211> 21

<212> DNA
<213> Homo sapiens

<400> 1147
ttggccattg accattacct g 21

<210> 1148
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1148
tttggggata atccgtgttc a 21

<210> 1149
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1149
gtgtcctggg tctggtcctc 20

<210> 1150
<211> 26
<212> DNA
<213> Homo sapiens

<400> 1150
cttagggaat tttggaacag aacatt 26

<210> 1151
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1151
gccgtcccct cctctctcta 20

<210> 1152
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1152
aattattgcc ttttcccctg ga 22

<210> 1153
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1153
ccagctacaa cggatgcaaa 20

<210> 1154
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1154
tcccgggtcca ctgcttaaaa 20

<210> 1155
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1155
tcaggggttt cccagttgag 20

<210> 1156
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1156
atcatcacgg tatggcgttg 20

<210> 1157
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1157
ccccggattt gttcactgg 19

<210> 1158
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1158
agtggtcgtt gagggcaatg 20

<210> 1159
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1159
cagggccttt gcaaacaag 19

<210> 1160
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1160
ttttggaacc cttagccctg t 21

<210> 1161
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1161
ccatctctga cccgccttc

19

<210> 1162
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1162
ggaccatggg ggaggtgaaa

20

<210> 1163
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1163
ctgactgctg cggcctctac

20

<210> 1164
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1164
gtttgcaggg ttggcataaa ttg

23

<210> 1165
<211> 31
<212> DNA
<213> Homo sapiens

<400> 1165
actaggtgac cagatacatg agtcttattt t

31

<210> 1166
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1166
ccattggaga aatggctggg

20

<210> 1167
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1167
ttttctggag cggccatatc 20

<210> 1168
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1168
gggctgagtc ctcagacagg 20

<210> 1169
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1169
aactgaggct gccctagcaa 20

<210> 1170
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1170
ccttcctgcc ctaacagcaa 20

<210> 1171
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1171
caccgtcagt cgtgggtgt 19

<210> 1172
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1172
cctggtaggg aaaagtgatg ga 22

<210> 1173
<211> 23
<212> DNA
<213> Homo sapiens

<400> 1173
tggaaaacaa cacagcaaaa tcc 23

<210> 1174
<211> 21
<212> DNA

<213> Homo sapiens

<400> 1174
aaatgacctt tgggtgccact g 21

<210> 1175
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1175
tggaggagag gaaaacggag a 21

<210> 1176
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1176
aatagcagca aggggaagac c 21

<210> 1177
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1177
atctaaatgg tccgcctgag c 21

<210> 1178
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1178
gcacaacttg gtaaggcacc a 21

<210> 1179
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1179
tgggaagagg aaggacaca 20

<210> 1180
<211> 29
<212> DNA
<213> Homo sapiens

<400> 1180
tgcacataac atatatttgc ctattgttt 29

<210> 1181

<211> 20
<212> DNA
<213> Homo sapiens

<400> 1181
caaggggcac cagtcttgat 20

<210> 1182
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1182
tggctggaga taggctttgg 20

<210> 1183
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1183
tttgtcgtgt ccgtggtttg 20

<210> 1184
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1184
ttggcagttt cccctgactt 20

<210> 1185
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1185
agcagtcttc ctgtgctcca g 21

<210> 1186
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1186
acactgctac cctgcgctct 20

<210> 1187
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1187
gcccagtttt gggctttctc 20

<210> 1188
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1188
catagccatt tctgcagcac ac 22

<210> 1189
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1189
tcgtggaact gcttgacagc 20

<210> 1190
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1190
aaccagaccg gtcacttcca 20

<210> 1191
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1191
cccacatccg catctgctat 20

<210> 1192
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1192
gatgccccgg ataatcctct 20

<210> 1193
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1193
ccttttctgg cagggttc 19

<210> 1194
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1194

gcacagccga tgcttgtaac 20

<210> 1195
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1195
tggccctgaa actcctcact 20

<210> 1196
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1196
tgcaaccagt tctgggagag a 21

<210> 1197
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1197
cacccaacac cccaatctgt 20

<210> 1198
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1198
ggctccctgc ggtatctctt 20

<210> 1199
<211> 24
<212> DNA
<213> Homo sapiens

<400> 1199
agtccattcc tgattcagaa cacc 24

<210> 1200
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1200
gtgaccttgc cagctccag 19

<210> 1201
<211> 19
<212> DNA
<213> Homo sapiens

<400> 1201
aggggccttg aagacgatg 19

<210> 1202
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1202
agtggtcggt gagggcaatg 20

<210> 1203
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1203
agggggagaag ctgggacaag 20

<210> 1204
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1204
cctcctcttc ctcctcgact g 21

<210> 1205
<211> 21
<212> DNA
<213> Homo sapiens

<400> 1205
tccatcagga gcttcttgct c 21

<210> 1206
<211> 20
<212> DNA
<213> Homo sapiens

<400> 1206
agtggcagag gaggcagggtt 20

<210> 1207
<211> 22
<212> DNA
<213> Homo sapiens

<400> 1207
actgccaaat gaaagcgaat tt 22

<210> 1208
<211> 20